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1859.

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15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED

For the Year 1859.

Printed and Published by Order of the Commissioners of Patents,

UNDER THE

ACT of 15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

BY BENNET WOODCROFT,

SUPERINTENDENT OF SPECIFICATIONS, INDEXES, &c.

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PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

SOUTHAMPTON BUILDINGS, HOLBORN.

1860.

CHRONOLOGICAL INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED.

PITMAN. 1st January 1859.	1. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"An improved mode of making and fitting bungs to casks and other vessels."—*A communication.* *Letters Patent sealed.*
TRAPHAGEN. 1st January 1859.	2. HELEN CATLIN TRAPHAGEN, of the City, County, and State of New York, in the United States of America, for an invention for—"Improvements in skirts for ladies." *Provisional protection only.*
ANDERSON. 1st January 1859.	3. ALBAN ANDERSON, of Lancaster, Fairfield, County Ohio, United States of America, for an invention for—"An improvement in governors for machinery." *Provisional protection only.*
GOSTEAU. 1st January 1859.	4. BENOÎT JOSEPH GOSTEAU, of 2, Rue Sainte Appoline, Paris, in the Empire of France, and of 45, Essex Street, Strand, London, Merchant, for an invention for—"An improved gridiron which may form a complete cooking-apparatus. *Letters Patent sealed.*
DROUOT. 1st January 1859.	5. JOSEPH EUGÈNE DROUOT, Baker, of 2, Rue Ste. Appoline, Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"Improvements in bakers' ovens." *Letters Patent sealed.*
FOOTMAN. 1st January 1859.	6. WILLIAM FOOTMAN, of No. 15, Water Street, Strand, in the County of Middlesex, for an invention for—"Improvements in breaks for retarding and stopping railway trains, carriages, or other vehicles." *Provisional protection only.*
OLIVER. 1st January 1859.	7. JOHN OLIVER, of White Bank, near Chesterfield, in the County of Derby, for an invention for—"Improvements in lubricators for steam-engine cylinders. *Letters Patent sealed.*
WALKLAND. 1st January 1859.	8. JAMES WALKLAND, of Green Lane, Sheffield, in the County of York, Silver-piercer, for an invention for—"An apparatus for lighting cigars & tobacco." *Provisional protection only.*
GARFORTH. 1st January 1859.	9. JAMES GARFORTH, of Dukinfield, in the County of Chester, Engineer, for an invention for—"Certaim improvements in steam-engines." *Letters Patent sealed; no specification filed.*
ASHWORTH. 1st January 1859.	10. HENRY ASHWORTH, of Littleborough, in the County of Lancaster, Manager, for an invention for—"A certain improvement in power looms for weaving." *Provisional protection only.*
SMITH. 1st January 1859.	11. ROBERT SMITH, of Beith, in the County of Ayr, North Britain, Wright, for an invention for—"Improvements in casting applicable to printing surfaces and for other purposes." *Provisional protection only.*
GUÉRINOT. 1st January 1859.	12. PIERRE EMMANUEL GUÉRINOT, of 60, Boulevart De Strasbourg, Paris, Mechanician Jeweller, for an invention for—"Improvements in the application of an apparatus to railway locomotives, waggons, and carriages, for the purpose of lessening the effect of concussion in the event of collision." *Letters Patent sealed.*

ECCLES.
1st January 1859.

13. WILLIAM ECCLES, of 34, Surry Street, Strand, Westminster, in the County of Middlesex, and of the University of Cambridge, Master of Arts, for an invention for —"Improving the machinery or apparatus for regulating the tension of the twist, threads or warp whilst it is weaving in power looms into cloth." *Letters Patent sealed.*

WIGZELL.
1st January 1859.

14. MONTAGUE WIGZELL, of Friars' Green, Exeter, in the County of Devon, for an invention for—"An improved form of nail or driving article." *Letters Patent sealed.*

PRINCE.
1st January 1859.

15. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in the construction of cylindrical presses."—*A communication from Prince Sergius Dolgoruki of Berlin.* *Provisional protection only.*

VON KANIG.
1st January 1859.

16. WILHELM ADOLPHE VON KANIG, of Leipsic, in the Kingdom of Saxony Gentleman, for an invention for—"Improvements in machinery or apparatus for digging and cultivating land." *Provisional protection only.*

HARRIS.
1st January 1859.

17. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatuses for regulating the pressure and flow of steam, water, and other fluids." *Letters Patent sealed.*

WOOD.
1st January 1859.

18. ISAAC WOOD, of Charing Cross, for an invention for—"Improvements in cutting and finishing corks, and in machinery used for such purposes."—*A communication from abroad by Henry E. Cox and Alexander Millar, of New York.* *Letters Patent sealed.*

SKINNER.
WHALLEY.
1st January 1859.

19. GEORGE SKINNER, of Stockton-on-Tees, County of Durham, Earthenware Manufacturer, and JOHN WHALLEY, of South Stockton-on-Tees, County of York, Earthenware Manufacturer, for an invention for—"Improvements in the manufacture of ornamental and other tiles and other similar articles." *Letters Patent sealed.*

BROWN.
1st January 1859.

20. JOHN BROWN, the younger, of the Rotherham Iron Works, Rotherham, in the County of York, Iron Founder, for an invention for—"Improvements in buffers, draw springs and bearing springs." *Provisional protection only.*

BOUSFIELD.
1st January 1859.

21. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for forming dough into cakes or bread crackers."—*A communication.* *Letters Patent sealed.*

LÉVÈQUE.
1st January 1859.

22. ALEXANDRE LOUIS LÉVÈQUE, of Paris, France, Gentleman, for an invention for—"An improved apparatus for subduing or stopping run-away or restive horses." *Letters Patent sealed.*

MORGAN.
1st January 1859.

23. JOSEPH BOND MORGAN, of Liverpool, in the County of Lancaster, Cotton Broker, for an invention for—"Improvements in propelling navigable vessels." *Letters Patent sealed.*

LUIS.
3rd January 1859.

24. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"New economical candles."—*A communication from Adolphe Michaut, residing at Montpellier, in the Empire of France.* *Letters Patent sealed.*

TEMPEST.
TOMLINSON.
3rd January 1859.

25. ROBERT TEMPEST & JAMES TOMLINSON, both of the Roach Iron Works, Rochdale, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in certain machines for preparing cotton and other fibrous materials." *Letters Patent sealed.*

MENNONS.
3rd January 1859.

26. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France,for an invention for—"Certain improvements in steam generators."—*A communication from Fréderic Simian, residing at Marseilles.* *Complete specification; Letters Patent sealed.*

BLYTH.
3rd January 1859.

27. CHARLES BELL BLYTH, of Dundee Mill, Manager, for an invention for—"Improvements in machinery for preparing and treating jute, hemp, flax and other fibrous materials." *Letters Patent sealed.*

BALCHIN.
3rd January 1859.

28. EDMUND BALCHIN, of Myton Gate, Hull, in the County of York, Gun Maker, for an invention for—"An improved construction of projectile applicable to the whale fishery." *Letters Patent sealed.*

RENTON.
RENTON.
BINNS.
3rd January 1859.

29. WILLIAM RENTON, of Leeds, in the County of York, Cloth Dresser, THOMAS RENTON, of Leeds aforesaid, Millwright, and WILLIAM BINNS, of Leeds aforesaid, Cloth Finisher, for an invention for—"Improvements in raising the nap or pile of textile fabrics." *Letters Patent sealed.*

FURNIVAL.
FURNIVAL.
DERBYSHIRE.
EMERY.
3rd January 1859.

30. JACOB FURNIVAL, of Leamington, in the County of Warwick, THOMAS FURNIVAL, of Cobridge, JOHN DERBYSHIRE, of Longton, and FRANCIS JOSEPH EMERY, of Burslem, all in the County of Stafford, for an invention for—"Improvements in apparatus for supporting articles of china and earthenware in kilns and ovens." *Letters Patent sealed.*

HIGHAM.
4th January 1859.

31. LINDLEY JOHN HIGHAM, late of New York, in the United States of America, but now residing at Edmund Place, in the City of London, Mechanic, for an invention for—"Improved means for obtaining submarine electrical conduction." *Provisional protection only.*

BUCHANAN.
4th January 1859.

32. JOHN BUCHANAN, of Greenock, in the County of Renfrew, North Britain, Gentleman, for an invention for—"Improvements in oil cans or lubricating apparatus." *Provisional protection only.*

JOYCE.
4th January 1859.

33. JOHN BARNETT JOYCE, of Bradford, in the County of York, Machine and Tool Maker, for an invention for—"Improvements in means, machinery, or apparatus applicable to wool combing." *Letters Patent sealed.*

HOOD.
4th January 1859.

34. WILLIAM HOOD, of 68, Upper Thames Street, in the City of London, Iron Merchant, for an invention for—"Improvements in racks and water cisterns for stables." *Letters Patent sealed.*

BEDBOROUGH.
4th January 1859.

35. ALFRED BEDBOROUGH, of the Town and County of the Town of Southampton, Architect and Surveyor, for an invention for—"An improved chimney cowl and ventilator." *Letters Patent sealed.*

DE FOREST.
4th January 1859.

36. CHARLES DE FOREST, of Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"An improvement in the manufacture of springs for carriages and other uses."—*A communication from Charles Goodyear, junior, residing at New York, in the United States of America.* *Letters Patent sealed.*

CLARK.
5th January 1859.

37. FREDERICK CLARK, of King Street, Bloomsbury, in the County of Middlesex, Turner, for an invention for—"Improvements in connecting knobs and handles to the spindles of locks and latches, and other articles of a like nature." *Letters Patent sealed.*

DRAPER.
5th January 1859.

38. WILLIAM DRAPER, of 2, Gordon Terrace, Holland Road, Brixton, in the County of Surrey, Artist, for an invention for—"Improvements in machinery for printing on paper and other fabrics." *Letters Patent sealed.*

HOWARD.
5th January 1859.

39. JAMES HOWARD, of Bedford, Agricultural Implement Maker, for an invention for—"An improved construction of lever-neck plough." *Letters Patent sealed.*

RUMNEY.
MACDONALD.
5th January 1859.

40. ROBERT RUMNEY, of Manchester, in the County of Lancaster, Manufacturing Chemist, and WILLIAM STEVENSON MACDONALD, of the same place, Mechanic, for an invention for—"Improvements in printing and dyeing woven fabrics and yarns or threads." *Letters Patent sealed.*

NEWTON.
5th January 1859.

41. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the process of and improved apparatus for separating metals from their ores."—*A communication from Lewis Solomon, of New York, in the United States of America.* *Provisional protection only.*

CORFIELD.
5th January 1859.

42. WILLIAM CORFIELD, the younger, of Charlton-Adam, in the County of Somerset, for an invention for—"Improvements in chains for coupling cranes, cables, mining purposes, hoisting, and all other purposes where chains are used." *Letters Patent sealed.*

KIRKMAN.
GRUNDY.
6th January 1859.

43. JAMES KIRKMAN, of Bolton-le-Moors, in the County of Lancaster, Manufacturer, and ISAAC GRUNDY, of the same place, Cotton Spinner, for an invention for—"Improvements in certain kinds of bed covers or counterpanes and other textile fabrics of similar character, and in the mode or method of weaving the same." *Provisional protection only.*

BURY.
6th January 1859.

44. GEORGE BURY, of Everton, near Liverpool, in the County of Lancaster, Overlooker, for an invention for—"Improvements in part or parts of apparatus commonly used and applied for effecting the pick in power looms for weaving."
Provisional protection only.

COOMBS.
6th January 1859.

45. HENRY GODFREY COOMBS, of No. 17, Union Street, Boro', in the County of Surrey, Iron Founder and Contractor, for an invention for—"An improved method of constructing railings, bars, gates, gratings, columns, and all other builders' work of a like nature or description." *Provisional protection only.*

HUGHES.
6th January 1859.

46. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for preparing cotton and other fibrous materials to be spun."—*A communication from César Vallée, resident at Cernay, in the Empire of France (Departement du Haut Rhin).* *Provisional protection only.*

RENTON.
RENTON.
BINNS.
6th January 1859.

47. WILLIAM RENTON, of Leeds, in the County of York, Cloth Dresser, THOMAS RENTON, of Leeds aforesaid, Millwright, and WILLIAM BINNS, of Leeds aforesaid, Cloth Finisher, for an invention for—"Improvements in finishing woollen and other fabrics." *Letters Patent sealed.*

ASPINALL.
6th January 1859.

48. JOHN ASPINALL, of Great Tower Street, in the City of London, Civil Engineer, for an invention for—"Improvements in machines for the manufacture of bolts, rivets and spikes." *Letters Patent sealed.*

JOHNSON.
6th January 1859.

49. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"An improved textile fabric applicable to the manufacture of varnished cloths and to other purposes."—*A communication from André Paul Roger, resident at Paris, in the Empire of France.* *Provisional protection only.*

JOHNSON.
6th January 1859.

50. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for boring or piercing rocks, applicable also to the dressing or working of stone, and as a power hammer generally."—*A communication from Monsieur Germain Sommeiller, residing at Turin, in the Kingdom of Sardinia, Engineer.* *Letters Patent sealed.*

SPENCE.
7th January 1859.

51. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the mode of taking photographic pictures on wood."—*A communication from Charles B. Boyle, residing in the United States of America.* *Letters Patent sealed.*

HOLDEN.
HOLDEN.
7th January 1859.

52. ISAAC HOLDEN, of St. Denis, near Paris, in the Empire of France, and ANGUS HOLDEN, of Bradford, in the County of York, for an invention for—"Improvements in means or apparatus employed in preparing and combing wool and other fibres."
Letters Patent sealed.

HEYWOOD.
7th January 1859.

53. EDWIN HEYWOOD, of Halifax, in the County of York, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

FLORANCE.
7th January 1859.

54. JEAN JOSEPH FLORANCE, of Paris, France, Merchant, for an invention for—"Improvements in reels or spooling-wheels." *Letters Patent sealed.*

GEYELIN.
7th January 1859.

55. GEORGE KENNEDY GEYELIN, Civil Engineer, of London, for an invention for—"Regulating gas burners, which he calls the Universal Gas Burners' Regulator."
Letters Patent sealed.

BARCLAY.
7th January 1859.

56. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in electric and magnetic telegraphs."
Provisional protection only.

PATERSON.
7th January 1859.

57. JOHN PATERSON, of Wood Street, in the City of London, Warehouseman, for an invention for—"An improvement in bands and belts for the waist."
Provisional protection only.

REYNOLDS.
7th January 1859.

58. HENRY REYNOLDS, of Denmark Hill, in the County of Surrey, Gentleman, for an invention for—"Improvements in refining and decolorizing saccharine substances." *Provisional protection only.*

NEWTON.
7th January 1859.

59. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for winding, twisting and doubling fibrous materials."—*A communication from Louis Barnabé Duboc, junior, of Paris, in the Empire of France.*
Letters Patent sealed.

HARDEN.
8th January 1859.

60. HENRY HARDEN, of Dundalk, in the County of Louth, Ireland, Locomotive Superintendent to the "Dublin and Belfast Junction Railway Company," for an invention for—"Improvements in fire bars for steam-boiler and other furnaces."
Letters Patent sealed.

VASSEROT.
8th January 1859.

61. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved chain and bucket pump."—*A communication from André Xavier Dubrulle-Chevalier, residing at Douai (Nord), in the Empire of France.* *Provisional protection only.*

FRIEDLAUDER.
8th January 1859.

62. DENNY FRIEDLAUDER, of Manchester, in the County of Lancaster, Wholesale Tobacconist, for an invention for—"An improved smoking pipe."
Provisional protection only.

HUBBELL.
8th January 1859.

63. THEODORE BYRON HUBBELL, of Castle Street, in the County of Middlesex, Manufacturer, for an invention for—"An improved trap for rabbits, rats, mice, and other like animals and vermin."—*A communication from C. B. Hubbell, residing at Bridgeport, U.S.* *Provisional protection only.*

VERSMANN.
OPPENHEIM.
8th January 1859.

64. FREDERICK VERSMANN and ALPHONS OPPENHEIM, of Bury Court, St. Mary, Axe, in the City of London, Analytical Chemists, for an invention for—"Improvements in the treatment of various substances by which to render the same uninflammable." *Provisional protection only.*

WILLIAMSON.
8th January 1859.

65. ALEXANDER WILLIAM WILLIAMSON, of University College, London, for an invention for—"Improvements in condensers for steam-engines and other purposes." *Provisional protection only.*

DELANY.
8th January 1859.

66. WILLIAM DELANY, of the City of Chicago, Cook, County and State of Illinois, United States of America, for an invention for—"Improvements in submarine boats or vessels and in apparatus used for working under water."—*A commnnication from abroad by Lodner D. Phillips, of the City of Chicago, aforesaid.*
Provisional protection only.

CLARK.
8th January 1859.

67. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in purifying natural phosphates of lime."—*A communication from Emile Constant Martin, residing at Paris, in the Empire of France, formerly Banker.* *Provisional protection only.*

COBBOLD.
8th January 1859.

68. EDWARD COBBOLD, of Hendon, in the County of Middlesex, Gentleman, for an invention for—"Improvements in instruments for writing and marking, and for the preparation of certain substances for conversion into instruments for writing and marking, and for the application to useful purposes of certain products arising from preparation aforesaid." *Letters Patent sealed.*

FORSTER.
8th January 1859.

69. JOHN THOMAS FORSTER, of Holland Road, Kensington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in bed berths, applicable for bunks, hammocks, cots, and other fixed and moveable sleeping places."
Letters Patent sealed.

NEWTON.
8th January 1859.

70. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in steam-engines and steam-generators."—*A communication from abroad by Louis Arnier of Marseilles, in the Empire of France.* *Letters Patent sealed.*

LYTTLE.
8th January 1859.

71. WILLIAM A. LYTTLE, Esq^{r}., of the Secretary's Department, General Post Office, Ireland, (address) Secretary's Office, General Post Office, London, for an invention for—"Taking the place of springs in many if not all of the combinations into which they enter and also for equilibrating a varying force or weight."
Provisional protection only.

CLEGG.
10th January 1859.

72. ROBERT DAWSON CLEGG, of Manchester, in the County of Lancaster, for an invention for—"Improvements in signalling apparatus." *Letters Patent sealed.*

NORMANDY. 10th January 1859.

73. LOUIS A. NORMANDY, jun^r, of 67, Judd Street, London, for an invention for —"Improvements in the process of distilling and clarifying resinous substances."—*A communication from E. Dromart, D. Dusillol, and A. Dusillol, of Préchac, Département de la Gironde, in the Empire of France.* *Provisional protection only.*

CLAXTON. 10th January 1859.

74. THOMAS JAMES CLAXTON, of the City of Montreal, Canada, Merchant, for an invention for—"Improvements in the manufacture of boots and shoes."—*A communication from Mellen Bray, of Montreal aforesaid, Boot and Shoe Maker.* *Letters Patent sealed.*

LEHR. 10th January 1859.

75. FERDINAND LEHR, of Hobboken, in the State of New Jersey, United States of America, for an invention for—"Improvements in machinery for manufacturing metallic ribs for umbrellas, parasols, and other articles." *Letters Patent sealed.*

MARGETSON. 10th January 1859.

76. JOHN STEWART MARGETSON, of Cheapside, in the City of London, for an invention for—"An improved box or case suitable for hats, collars, and other useful purposes." *Provisional protection only.*

WHITE. 10th January 1859.

77. JOHN WHITE, of Finchley, in the County of Middlesex, Surgeon, for an invention for—"Improvements in cleansing or purifying air, and in increasing or reducing the temperature thereof, and in the application of air so treated to sanitary and other uses." *Letters Patent sealed.*

TOMS. 10th January 1859.

78. THOMAS HARRIS TOMS, of Staining Lane, in the City of London, for an invention for—"The employment of certain materials for the production of raised ornamental figures or devices upon textile fabrics." *Complete specification; Letters Patent sealed.*

AGNENI. 11th January 1859.

79. EUGENIO AGNENI, of 29, Devonshire Street, Queen Square, Bloomsbury, in the County of Middlesex, an Historical Painter, Native of Rome, for an invention for—"Increasing particularly the effect of decorative pictures, landscapes, drawings, and prints through looking-glasses." *Letters Patent sealed.*

KERNOT. 11th January 1859.

80. CHARLES MIDDLETON KERNOT, of Gloucester House, West Cowes, Isle of Wight, in the County of Southampton, Doctor of Medicine, Doctor of Laws and Logic, Doctor of Philosophy, and Member of the Royal College of Surgeons, England, &c., for an invention for—"Improvements in purifying and decolorizing paraffine, and rendering the same white, hard, and sweet. *Letters Patent sealed.*

BIERS. 11th January 1859.

81. JOHN BIERS, the younger, of No. 38, Rochester Road, Kentish Town, in the Parish of Saint Pancras, in the County of Middlesex, Coach Maker, for an invention for—"A self-acting carriage wheel break." *Letters Patent sealed.*

ROBBIN. 11th January 1859.

82. BENJAMIN ROBBIN, of Yarmouth, Nova Scotia, Master Mariner, for an invention for—"Improvements in the machinery for working pumps." *Letters Patent sealed.*

TILLIE. 11th January 1859.

83. WILLIAM TILLIE, of the City of Londonderry, in the County of Londonderry, Ireland, Shirt Manufacturer, for an invention for—"An improvement in the manufacture of shirts and shirt fronts." *Letters Patent sealed.*

HUGHES. 11th January 1859.

84. DAVID EDWARD HUGHES, of New York, but now residing at Northampton Square, in the County of Middlesex, Telegraphic Engineer, for an invention for—"An improved mode of insulating electrical conducting wires." *Letters Patent sealed.*

RUBENSTEIN. 11th January 1859.

85. BERNARD JOSEPH RUBENSTEIN, late of Paris, and now of London, Dentist, for an invention for—"Improvements in dentistry." *Provisional protection only.*

HAWTHORN. HAWTHORN. 11th January 1859.

86. ROBERT HAWTHORN & WILLIAM HAWTHORN, both of the Town and County of Newcastle-upon-Tyne, Engineers, for an invention for—"Improvements in apparatus for promoting combustion and preventing smoke in coal-burning locomotives and other steam-boiler furnaces." *Letters Patent sealed.*

SIEMENS. 11th January 1859.

87. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in supports for electric telegraphic line wires, and in tools or apparatus to be used in the construction of such supports, part of which improvements are applicable to the joining of pipes and other articles." *Letters Patent sealed.*

VERSMANN. OPPENHEIM. 11th January 1859.

88. FREDERICK VERSMANN and ALPHONS OPPENHEIM, of Bury Court, St. Mary Axe, in the City of London, Analytical Chemists, for an invention for—"Improvements in rendering fabrics and substances non-inflammable." *Letters Patent sealed.*

BURGH.
11th January 1859.

89. NICHOLAS PROCTER BURGH, of Sheerness, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

BOUCHÉ.
12th January 1859.

90. PHILIPPE BOUCHÉ, of 17, Rue de Bretagne, Paris, in the Empire of France, Stays Manufacturer, for an invention for—"Improvements in the used means for mechanically raising up the gowns of ladies and young ladies." *Provisional protection only.*

BRAY.
BRAY.
12th January 1859.

91. WILLIAM BRAY and WILLIAM THOMAS GEORGE BRAY, both of Folkestone, in the County of Kent, Engineers, for an invention for—"Improvements in locomotive and traction engines." *Letters Patent sealed.*

OLIVER.
12th January 1859.

92. WILLIAM OLIVER, of Shadwell, in the County of Middlesex, for an invention for—"Improvements in boats and in the mode of propelling them." *Letters Patent sealed.*

THOMSON.
12th January 1859.

93. JOHN THOMSON, of Dundee, in the County of Forfar, Manufacturer, for an invention for—"Improvements in the manufacture of rugs." *Letters Patent sealed.*

HANDS.
12th January 1859.

94. JOSEPH HANDS, of Elgin Crescent, Notting Hill, in the County of Middlesex, Surgeon, for an invention for—"Improvements in preserving or preparing skins intended to be converted into leather or otherwise manufactured." *Letters Patent sealed.*

GIBBONS.
12th January 1859.

95. JOSEPH GIBBONS, of No. 345, Oxford Street, in the County of Middlesex, for an invention for—"Improvements in fixing door and other knobs." *Letters Patent sealed.*

CANNING.
CLIFFORD.
12th January 1859.

96. SAMUEL CANNING & HENRY CLIFFORD, both of Leadenhall Street, in the City of London, Engineers, for an invention for—"Improvements in machinery for paying out and for recovering or picking up submarine telegraph ropes, cables, or chains." *Provisional protection only.*

ELWELL.
12th January 1859.

97. THOMAS ELWELL, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in governors for steam-engines and other motive-power engines." *Letters Patent sealed.*

M^cNAUGHT.
M^cNAUGHT.
12th January 1859.

98. WILLIAM M^cNAUGHT, of Manchester, in the County of Lancaster, Engineer, and WILLIAM M^cNAUGHT, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines, and in apparatus connected therewith." *Letters Patent sealed.*

PHILLIPS.
12th January 1859.

99. SAMUEL PHILLIPS, of Moseley, in the County of Worcester, Gentleman, for an invention for—"Improvements in fastenings for securing windows, shutters, and doors, and for other similar uses." *Provisional protection only.*

MUSHET.
12th January 1859.

100. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"A new or improved metallic alloy." *Letters Patent sealed.*

MUSHET.
12th January 1859.

101. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement or improvements in the manufacture of cast steel." *Letters Patent sealed.*

MAY.
12th January 1859.

102. CHARLES NEALE MAY, of Devizes, in the County of Wilts, Engineer, for an invention for—"Improvements in sluice valves." *Provisional protection only.*

BESLAY.
12th January 1859.

103. CHARLES BESLAY, of 52, Rue St. Sebastian, Paris, in the Empire of France, Engineer, for an invention for—"Improvements in coating or covering iron or steel with tin, zinc, or lead, or alloys of those metals, by electrical deposit." *Letters Patent sealed.*

MAY.
13th January 1859.

104. CHARLES NEALE MAY, of Devizes, in the County of Wiltshire, Engineer, for an invention for—"An improved heat indicator." *Letters Patent sealed.*

LIGHTOLLER.
13th January 1859.

105. RICHARD ASHTON LIGHTOLLER, of Chorley, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton or other fibrous materials." *Letters Patent sealed.*

BENNETTS.
13th January 1859.

106. WILLIAM BENNETTS, of Tuckingmill, in the County of Cornwall, Workman, for an invention for—"Improvements in mechanism used for preventing accidents when raising or lowering skips, baskets, or apparatus, particularly applicable to mines." *Letters Patent sealed.*

CRISPIN. 13th January 1859.

107. WILLIAM HENRY CRISPIN, of Marsh Gate Lane, Stratford, in the County of Essex, Copper Smelter, for an invention for—"Improvements in the construction of ships and other sailing and steam vessels." *Provisional protection only.*

CRITCHLEY. ELSTON. 13th January 1859.

108. HENRY CRITCHLEY, of Bury, in the County of Lancaster, Engineer, and SOLOMON ELSTON, of the same place, Engineer, for an invention for—"Certain improvements in pistons for steam-engines or other purposes." *Letters Patent sealed.*

SCOPES. 13th January 1859.

109. GEORGE SCOPES, of Needham Market, in the County of Suffolk, Bricklayer, for an invention for—"Improvements in apparatus for communicating motion to cots, cradles, and other articles for children's use." *Provisional protection only.*

PICKSLEY. SIMS. 13th January 1859.

110. JOHN PICKSLEY and REUBEN SIMS, of Bedford Foundry, Leigh, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in lawn mowing machines." *Letters Patent sealed; no specification filed.*

MORRISON. 13th January 1859.

111. WILLIAM HENRY MORRISON, of Nottingham, Manufacturer, for an invention for—"Improvements in wind musical instruments." *Provisional protection only.*

BANKS. 13th January 1859.

112. DANIEL LANCASTER BANKS, of Kennington, in the County of Surrey, Engineer, for an invention for—"A method of constructing a travelling suspension rail or road-way, applicable among other uses as a bridge and lifting agent." *Letters Patent sealed.*

STEVENS. 13th January 1859.

113. JAMES JOHN STEVENS, of Darlington Works, Southwark, in the County of Surrey, Engineer, for an invention for—"Improvements in railway signal apparatuses." *Letters Patent sealed.*

MANCEAUX. VIEILLARD. 13th January 1859.

114. FRANCOIS JULES MANCEAUX, of Paris, in the Empire of France, Manufacturer, and EUGENE NAPOLÉON VIEILLARD, of the same place, Gunsmith, for an invention for—"Improvements in breech-loading fire-arms and in cartridges." *Letters Patent sealed.*

GRIST. 13th January 1859.

115. JOHN GRIST, of Beazley Crescent, Old Ford, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for cutting and shaping staves and heads for casks, and for the manufacture of casks." *Letters Patent sealed.*

CHADWICK. 13th January 1859.

116. WILLIAM ARTHUR CHADWICK, of Wandsworth Road, in the County of Surrey, Merchant, for an invention for—"A musical instrument chiefly for teaching the intervals of musical scales." *Provisional protection only.*

WILSON. 13th January 1859.

117. WILLIAM WILSON, of Newcastle-on-Tyne, Hat Manufacturer, for an invention for—"Improvements in machinery for felting bodies of hats and bonnets."—*A communication from abroad by J. S. Taylor, of Danbury, Connecticut, United States of America.* *Letters Patent sealed.*

HERBERT. WHITAKER. 13th January 1859.

118. THOMAS HERBERT, of the firm of Thomas Herbert and Company, of Nottingham, and EDWARD WHITAKER, also of Nottingham, for an invention for—"Improvements in the manufacture of warp lace." *Letters Patent sealed.*

ROWLAND. 13th January 1859.

119. OWEN ROWLAND, of 4, Chapel Street West, May Fair, in the County of Middlesex, for an invention for—"Improvements in laying electric telegraph wires in streets." *Provisional protection only.*

BARRANS. 13th January 1859.

120. JOSEPH BARRANS, of 2, Caledonian Terrace, Queen's Road, Peckham, in the County of Surrey, for an invention for—"Improvements in traction and portable steam-engines." *Letters Patent sealed.*

SAMPSON. 13th January 1859.

121. THOMAS SAMPSON, of Calle Cartaños, No. 8, Barcelona, Spain, for an invention for—"Improvements in apparatus for feeding steam-boilers with water." *Letters Patent sealed.*

HOLT. 14th January 1859.

122. SAMUEL HOLT, of the City of Manchester, in the County of Lancaster, Silk Manufacturer, for an invention for—"A new and improved manufacture of woven silk fabrics." *Letters Patent sealed.*

MENNONS. 14th January 1859.

123. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"A new or improved time-measurer."—*A communication from Pasquale Perelli-Ercolini, of Prémeno, in the Sardinian States.* *Provisional protection only.*

CRAFT. WILSON. 14th January 1859.

124. WILLIAM CRAFT, of 12, Cambridge Road, Hammersmith, and THOMAS WILSON, of Bradmore House, Chiswick, both in the County of Middlesex, for an invention for—"Improvements in drawers and napkins so as to render the same waterproof." *Letters Patent sealed.*

DAVIS. 14th January 1859.

125. WILLIAM DAVIS, of 2, Ann Street, Globe Fields, Mile End, in the County of Middlesex, for an invention for—"Improvements in sluice valves." *Letters Patent sealed.*

DAUGLISH. 14th January 1859.

126. JOHN DAUGLISH, of Tunbridge Wells, M.D., for an invention for—"Improvements in obtaining carbonic acid gas." *Letters Patent sealed.*

ROMAINE. 14th January 1859.

127. ROBERT ROMAINE, of Chapel Street, Bedford Row, in the County of Middlesex, Gentleman, for an invention for—"An improved arrangement of portable railway." *Letters Patent sealed.*

ECCLES. 15th January 1859.

128. JOSEPH ECCLES, of Blackburn, in the County of Lancaster, Cotton Manufacturer, for an invention for—"Improvements in the manufacture of articles from clay earths for building purposes, as substitutes for such articles as are usually formed of stone and other materials." *Letters Patent sealed.*

Mᶜ KNIGHT. 15th January 1859.

129. WILLIAM HENRY EDWARD Mᶜ KNIGHT, of Lydiard House, near Swindon, Co. Wilts, for an invention for—"An upright-celled boiler applicable to all heating purposes by hot-water or other fluid." *Letters Patent sealed.*

VIETTE. 15th January 1859.

130. POLYNICE AUGUSTE VIETTE, of No. 25, Faubourgh de Schaerbeck, near Brussels, a Major in the Service of His Majesty the King of the Belgians, for an invention for—"Certain inks applicable for engraving and lithographic purposes." *Letters Patent sealed.*

BANKS. 15th January 1859.

131. DANIEL LANCASTER BANKS, of 3, Kennington Row, Kennington Park, in the County of Surrey, Engineer, for an invention for—"Improvements in the method of constructing a travelling suspension rail or roadway to be used for the cultivation of land." *Letters Patent sealed.*

MUSHET. 15th January 1859.

132. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of cast steel. *Letters Patent sealed.*

BETTS. 15th January 1859.

133. WILLIAM BETTS, of Wharf Road, City Road, in the County of Middlesex, Capsule Manufacturer, for an invention for—"Improvements in the manufacture of capsules and in the apparatus to be employed therein." *Letters Patent sealed.*

MUSHET. 15th January 1859.

134. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement or improvements in the manufacture of cast steel." *Letters Patent sealed.*

MORGAN. 17th January 1859.

135. WILLIAM MORGAN, of 31, Grafton Street, Fitzroy Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in printing and stencilling and in the apparatus or machinery used therein, also for certain applications of such printing and stencilling." *Provisional protection only.*

EDWARDS. 17th January 1859.

136. THOMAS EDWARDS, of Liverpool, in the County of Lancaster, Gas Engineer, for an invention for—"Improvements applicable to letter boxes and other like receptacles." *Provisional protection only.*

MONTGOMERY. 17th January 1859.

137. JAMES MONTGOMERY, of the City of New York, in the United States of America, for an invention for—"Improvements in the construction of the hulls of steam and other vessels, and in the feed weater heaters, boilers, water gauges, condensers, engines and propelling machinery appertaining to the former, a portion of which improvements (with the exception of those on the hull) are applicable to analogous useful purposes." *Letters Patent sealed.*

HUGHES. 17th January 1859.

138. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for sowing seed."—*A communication from Constant Beure and Edouard Barret, resident at Grand-Sancy, Departement du Doubs, in the Empire of France.* *Provisional protection only.*

SICARD. 17th January 1859.

139. PIERRE AMABLE DE SAINT SIMON SICARD, of Paris, in the French Empire, Chemist, for an invention for—"An improved process and apparatus for converting cast iron into steel." *Letters Patent sealed.*

COOPER. 17th January 1859.	**140.** SAMULL THOMAS COOPER, of Upper Clapton, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the use and application of artificial light." *Provisional protection only.*
NEWTON. 17th January 1859.	**141.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in sewing-machines."—*A communication from Elias Howe, junior, of Brooklyn, in the United States of America.* *Letters Patent sealed.*
BROOKS. 17th January 1859.	**142.** EDWARD BROOKS, of 43, Edward Street, Dorset Square, in the County of Middlesex, Locksmith, for an invention for—"Improvements in locks." *Letters Patent sealed.*
SALTER. 17th January 1859.	**143.** ROGER GEORGE SALTER, of Alphington, in the County of Devon, Engineer, for an invention for—"Improvements in apparatuses for collecting or picking up letters, papers, and other articles requiring to be stamped or printed." *Letters Patent sealed.*
COLLIER. COLLIER. 17th January 1859.	**144.** GEORGE COLLIER and JOHN COLLIER, both of Halifax, in the County of York, for an invention for—"Improvements in means or apparatus for washing and drying wool and other fibres, part of which improvements is also applicable for other purposes where steam, hot water, or other fluids are required to be conveyed under pressure through moveable connections." *Letters Patent sealed.*
MUSHET. 17th January 1859.	**145.** ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of cast steel." *Letters Patent sealed.*
LUIS. 18th January 1859.	**146.** JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new machine for putting on, equalizing and drying the colors on paper for hangings, book-binding, boarding, and fancy paper of every description."—*A communication from J. P. Faure, residing in Paris, in the Empire of France.* *Provisional protection only.*
NEWMAN. 18th January 1859.	**147.** WILLIAM NEWMAN, of Aston, near Birmingham, in the County of Warwick, Brassfounder, for an invention for—"New or improved furniture for window and other blinds." *Letters Patent sealed.*
FOSTER. 18th January 1859.	**148.** JOHN FOSTER, of Lancaster, in the County of Lancaster, Corn Merchant, for an invention for—"Certain improvements in machinery or apparatus called 'spinning frames' and 'roving frames' employed for spinning and roving flax, tow, hemp, jute, and other fibrous substances." *Letters Patent sealed.*
HAMILTON. 18th January 1859.	**149.** GEORGE HAMILTON, of Liverpool, in the County of Lancaster, Professor of Chemistry, Queen's College, Liverpool, aforesaid, for an invention for—"Improvements in treating rosin and resinous substances to obtain products therefrom, and in treating the products obtained from rosin and resinous substances." *Letters Patent sealed.*
GALLON. BEAN. LUMB. 18th January 1859.	**150.** HENRY GALLON, JOSEPH HENRY BEAN, and SAMUEL LUMB, of Leeds, Machine Makers, for an invention for—"Improvements in machinery for slotting, morticeing, tennoning and cutting wood, iron and other substances." *Letters Patent sealed.*
ARCHIBALD. 18th January 1859.	**151.** CHARLES DICKSON ARCHIBALD, of Rusland Hall, in the County Palatine of Lancaster, England, Esquire, at present being in the City of New York, United States of America, for an invention for—"Generating force."—*A communication from Henry Munro Paine, residing at Worcester, Mass.* *Letters Patent sealed.*
BROOMAN. 18th January 1859.	**152.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved silk thread and a new fabric made entirely or partially from the same."—*A communication from C. Depoully, senior, residing at Paris.* *Letters Paent sealed.*
GARRETT. KERRIDGE. 18th January 1859.	**153.** RICHARD GARRETT, Junior, of Leiston Works, Saxmundham, in the County of Suffolk, and JAMES KERRIDGE, Foreman to Messrs. Garrett & Sons, of Leiston Works aforesaid, for an invention for—"An improved arrangement of combined thrashing and dressing machine." *Letters Patent sealed.*

FAWCETT. 18th January 1859.

154. JOHN FAWCETT, of Kingston-upon-Hull, in the County of same Town, Merchant, for an invention for—"An improved preparation of food for cattle and horses." *Letters Patent sealed and specification filed by order.*

BRADLEY. CRAVEN. 18th January 1859.

155. RICHARD BRADLEY & WILLIAM CRAVEN, of Westgate Common Foundry, Wakefield, in the County of York, Engineers, for an invention for—"Improvements in machinery or apparatus for manufacturing bricks, tiles, and other similar articles." *Letters Patent sealed.*

TROTTER. 18th January 1859.

156. WILLIAM TROTTER, of South Acomb, in the County of Northumberland, Farmer, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

JOHNSON. 18th January 1859.

157. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in air pistols and guns."—*A communication from Jacques Louis Lemaire Daimé, residing at Paris, in the Empire of France, Merchant.* *Provisional protection only.*

THORNTON. 19th January 1859.

158. JOSHUA THORNTON, of Cleckheaton, in the County of York, Machine Maker, for an invention for—"Improvements in carding-engines." *Provisional protection only.*

POWELL. 19th January 1859.

159. WILLIAM AUGUSTUS FREDERICK POWELL, of Bristol, in the County of Somersetshire, Potter, for an invention for—"Improvements in stopping or closing jars and bottles." *Letters Patent sealed.*

SPARRE. 19th January 1859.

160. PEHR AMBJÖRN SPARRE, of Stockholm, but now of 50, Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in the manufacture of paper suitable for bank notes, checques, bills and similar articles." *Letters Patent sealed.*

CLARKE. 19th January 1859.

161. THOMAS CLARKE, of Litchurch Lane, near Derby, in the County of Derby, and of Staveley, in the County of Derby, Moulder, for an invention for—"Improvements in the manufacture of core barrels for pipes or columns used either for railway piles or columns, or for water pipes or sewerage pipes." *Letters Patent sealed.*

HUGHES. 19th January 1859.

162. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for measuring and sorting silk and other textile materials."—*A communication from Jules Veyrin, Silk Merchant, residing at Lyons, in the Empire of France.* *Letters Patent sealed.*

WHITEHEAD. 19th January 1859.

163. JAMES WHITEHEAD, of Halifax, in the County of York, Wire Manufacturer, for an invention for—"Improvements in the means or machinery for the manufacture of 'purled' wire." *Letters Patent sealed.*

STEVENS. 19th January 1859.

164. EBENEZER STEVENS, of 5, Patriot Row, Cambridge Road, in the County of Middlesex, for an invention for—An improved cooking utensil." *Letters Patent sealed.*

EVANS. RODD. 19th January 1859.

165. THOMAS ANDREW EVANS, of 15, Queen's Road, Bayswater, and WALTER JAMES HANDSCOMBE RODD, of 38, Arlington Square, Islington, Artist, for an invention for—"A new method of advertising." *Provisional protection only.*

POUPARD. 19th January 1859.

166. WILLIAM POUPARD, of Blackfriars Road, in the County of Surrey, Engineer, for an invention for—"An improved wheel-skid or shoe." *Letters Patent sealed.*

JOHNSON. 19th January 1859.

167. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Certain improvements in the manufacture or production of lasts, boot trees and clogs, and in the machinery and apparatus employed in the production of such articles."—*A communication from Jules Mathieu, residing at Paris, in the Empire of France.* *Letters Patent sealed.*

JOHNSON. 19th January 1859.

168. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for "Improvements in apparatus for making cigarettes."—*A communication from Jacques Louis Lemaire Daimè, residing at Paris, in the Empire of France, Merchant.* *Letters Patent sealed.*

CLARK.
19th January 1859.

169. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements in boots and shoes, and in the machinery, apparatus and means employed in such manufacture."—*A communication from Charles Jules Pierre Desnos, of 29, Boulevard St. Martin, Paris, in the Empire of France.* *Provisional protection only.*

REID.
MILNER.
20th January 1859.

170. JAMES CROFT REID, of Liverpool, in the County of Lancaster, Master Mariner, and WILLIAM MILNER, of the same place, Manufacturer, for an invention for—"Certain improvements in the construction of ships and vessels." *Letters Patent sealed.*

HILLIARD.
CHAPMAN.
20th January 1859.

171. HARVEY HILLIARD and THOMAS CHAPMAN, Cutlery Manufacturers and Patentees of the "Furbator," of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in table knives and in table-knife sharpeners." *Letters Patent sealed.*

LINDO.
20th January 1859.

172. ABRAHAM LINDO, of Batignolles, in the French Empire, Chemist, for an invention for—"Improvements in manufacturing soap." *Letters Patent sealed.*

WOOFE.
20th January 1859.

173. WILLIAM WOOFE, of the City of Gloucester, Agriculturalist, for an invention for—"Improvements in implements for ploughing, tilling, and paring land." *Provisional protection only.*

HUGHES.
20th January 1859.

174. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements for preventing incrustation in steam-boilers or other vessels."—*A communication from Herr Von Langen, Royal Architect, residing at Berlin, in the Kingdom of Prussia.* *Provisional protection only.*

GREENWOOD.
BATLEY.
20th January 1859.

175. THOMAS GREENWOOD & JOHN BATLEY, of Leeds, in the County of York, Machine Makers, for an invention for—"An improvement in the process of gassing textile fabrics."—*A communication from H. Van den Berghe, residing at Rue de St. Georges, Courtrai, Belgium.* *Letters Patent sealed.*

PHILLIPS.
20th January 1859.

176. SAMUEL PHILLIPS, of Moseley, in the County of Worcester, Gentleman, for an invention for—"Improvements in sliding sashes, shutters, or doors." *Letters Patent sealed.*

NEWTON.
20th January 1859.

177. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for measuring water and other liquids."—*A communication from Mr. Alfred Nobel, Engineer, of Paris, in the Empire of France.* *Letters Patent sealed.*

GREENWOOD.
BATLEY.
DOCKRAY.
20th January 1859.

178. THOMAS GREENWOOD, JOHN BATLEY, and JACOB DOCKRAY, of Leeds, in the County of York, Machinists, for an invention for—"Improved machinery for converting hemp and flax fibres into yarn, twine, ropes, and cordage." *Letters Patent sealed.*

BENT.
20th January 1859.

179. JOSEPH BENT, of Newhall Street, Birmingham, in the County of Warwick, Military Ornament Manufacturer, for an invention for—"Certain improvements in clasps or fastenings applicable for belts, garters, and other purposes." *Letters Patent sealed.*

SHANKS.
20th January 1859.

180. JAMES SHANKS, of Arbroath, in the County of Forfar, North Britain, Machinist, for an invention for—"Improvements in mowing-machines." *Provisional protection only.*

CLARK.
MUIRHEAD.
20th January 1859.

181. JOSIAH LATIMER CLARK, of Haverstock Hill, and JOHN MUIRHEAD, of Gloucester Road, Regent's Park, both in the County of Middlesex, for an invention for—"Improvements in electric telegraphs, and in the apparatus used in working the same." *Letters Patent sealed.*

SAGAR.
SCHULTZ.
20th January 1859.

182. HENRY SAGAR, of Broughton, near the City of Manchester, in the County of Lancaster, Bleacher and Dyer, and ALEXANDER SCHULTZ, of Paris, in the Kingdom of France, and of the City of Manchester aforesaid, Chemist, for an invention for—"Improvements in producing pink shades on cotton fabrics or yarns." *Letters Patent sealed.*

RICHARDSON.
21st January 1859.

183. THOMAS RICHARDSON, of 20, New Bridge Street, Newcastle-on-Tyne, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

OSLER. BALCOMBE. 21st January 1859.

184. SAMUEL OSLER, of Greath Yarmouth, in the County of Norfolk, and JOHN BARTON BALCOMBE, of Brixton, in the County of Surrey, Gentleman, for an invention for—"Improvements in apparatus for treating fish so as to adapt it for manure, and in using the same alone or in combination with super-phosphate of lime or other phosphates. *Provisional protection only.*

LE PRINCE. 21st January 1859.

185. LOUIS LE PRINCE, of No. 261, Regent Street, in the County of Middlesex, Bootmaker, for an invention for—"The improvement of ladies' boots and shoes, called the Caméleon boot and the Caméleon shoe." *Letters Patent sealed.*

HARKES. 21st January 1859.

186. GEORGE BELL HARKES, of Number 1, Montague Terrace, Trinity Square, Southwark, in the County of Surrey, Engineer, for an invention for—"An improved machine for washing, wringing, and mangling." *Provisional protection only.*

ELLIS. 21st January 1859.

187. GEORGE ELLIS, of No. 4, Collier Street, Pentonville, in the County of Middlesex, Merchant, for an invention for—"The improvement of muffs, to be called the Patent Reticule Muff." *Provisional protection only.*

HICK. HARGREAVES. 21st January 1859.

188. JOHN HICK and WILLIAM HARGREAVES, of Bolton-le-Moors, in the County of Lancaster, Engineers, trading under the firm of Benj[a] Hick & Son, for an invention for—"Improvements in the construction of steam-boilers." *Letters Patent sealed; no specification filed.*

HOWELL. WILLDER. 21st January 1859.

189. RICHARD HOWELL, of Smethwick, in the County of Stafford, Gas Fitter, and RICHARD JAMES WILLDER, of Birmingham, in the County of Warwick, Hatter, for an invention for—"An improvement or improvements in taps or stop-cocks." *Letters Patent sealed.*

O'HARA. 21st January 1859.

190. CHARLES O'HARA, of Toronto, Canada West, but now residing at No. 4, Upper Seymour Street, Hyde Park, in the County of Middlesex, Esquire, for an invention for—"Improvements in propellers for propelling steam boats, ships, and vessels." *Letters Patent sealed.*

WELLS. 21st January 1859.

191. WILLIAM WELLS, of Greetland, near Halifax, in the County of York, Cotton Spinner, for an invention for—"Improvements in machinery or apparatus employed in spinning and twisting cotton and other fibrous substances." *Provisional protection only.*

DAVENPORT. 21st January 1859.

192. ALFRED DAVENPORT, of Birmingham, in the County of Warwick, Gas Purifier Manufacturer, for an invention for—"An improved regulating burner for gas."—*A communication from Henry Woodward, residing at New York, in the United States of America.* *Provisional protection only.*

CHILDS. 21st January 1859.

193. JAMES CHILDS, of Windsor House, Windsor Road, Putney, in the County of Surrey, for an invention for—"An improvement in applying heat in the manufacture of artificial gums and teeth, and other articles composed of india rubber or gutta percha combined with sulphur." *Letters Patent sealed.*

HUME. 21st January 1859.

194. JAMES HILL HUME, of Broughty Ferry, in the County of Forfar, North Britain, Baker, for an invention for—"Improvements in warming apparatus for the feet." *Letters Patent sealed.*

GAUTIER. DUMAY. PERSIN. 21st January 1859.

195. ANDRÉ JACQUES AMAND GAUTIER, JEAN GILBERT DUMAY, JEAN THEODORE PERSIN, of Paris, France, Gentlemen, for an invention for—"An improved manure." *Provisional protection only.*

MORRISON. KINSEY. 21st January 1859.

196. WILLIAM HENRY MORRISON, of Nottingham, Manufacturer, and HENRY KINSEY, of the same place, Machinist, for an invention for—"Improvements in means or apparatus employed in the manufacture of bonnet fronts, ruches, ribbon trimmings, and other goffered or plaited articles." *Provisional protection only.*

NEWMAN. 21st January 1859.

197. JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of chains." *Letters Patent sealed.*

LAUTH. 21st January 1859.

198. BERNARD LAUTH, late of Pittsburgh, State of Pensylvania, U.S.A., but now residing at Surrey Street, in the City of Westminster, Mechanician, for an invention for—"An improved mode of and improved machinery for rolling plates, bars, rods, and shafts." *Letters Patent sealed.*

EDWARDS. 21st January 1859.

199. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of buckles." *Provisional protection only.*

DROUIN. 22nd January 1859.

200. LOUIS AUGUSTE DROUIN, of No. 95, Rue Popincourt, in the City of Paris, Joiner, for an invention for—"Improvements in covering joinery work with metals or metallic alloys, and apparatus for the purpose." *Provisional protection only.*

MOSELEY. 22nd January 1859.

201. DAVID MOSELEY, of the Chapel Field Works, Ardwick, in the City of Manchester, Manufacturer of India-rubber and Gutta-percha, for an invention for—"Improvements in the manufacture of india-rubber thread." *Letters Patent sealed.*

TEMPLAR. 22nd January 1859.

202. BENJAMIN TEMPLAR, of the City and County of Bristol, Dyer, for an invention for—"Improvements in umbrellas and parasols." *Letters Patent sealed.*

DORSETT. BLYTHE. 22nd January 1859.

203. EDWARD DORSETT, of 76, Old Broad Street, in the City of London, Tar Distiller, and JOHN BENNINGTON BLYTHE, of Minerva Place, New Cross, in the County of Kent, Merchant, for an invention for—"Improvements in the distillation of oil from coal tar, and in apparatus for preserving timber therewith." *Letters Patent sealed.*

HENRY. 22nd January 1859.

204. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery or apparatus for manufacturing corks and bungs."—*A communication from Messieurs Dalverny and Thouzellier, both residing at Sommières, in France.* *Provisional protection only.*

NEWTON. 22nd January 1859.

205. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting files."—*A communication from Milton D. Whipple, of the United States of America.* *Letters Patent sealed.*

RAMMELL. 22nd January 1859.

206. THOMAS WEBSTER RAMMELL, of No. 16, Spring Gardens, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in atmospheric propulsion, and the structures, tubes, machinery and apparatus applicable thereto." *Letters Patent sealed.*

SHARPS. 22nd January 1859.

207. CHRISTIAN SHARPS, of Philadelphia, in the State of Pennsylvania, United States of America, Manufacturer of Fire-arms, for an invention for—"Improvements in breech loading repeating fire-arms." *Letters Patent sealed.*

BARTER. 22nd January 1859.

208. RICHARD BARTER, of St. Ann's Hill, Blarney, in the County of Cork, Doctor of Medicine, for an invention for—"Improvements in heating and ventilating buildings, and in apparatus connected therewith." *Letters Patent sealed.*

HOMERSHAM. 24th January 1859.

209. WILLIAM COLLETT HOMERSHAM, of Adelphi Terrace, Strand, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in floating 'gridirons' or stages for repairing ships or other vessels." *Letters Patent sealed.*

MUSHET. 24th January 1859.

210. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of cast steel and iron." *Letters Patent sealed.*

MUSHET. 24th January 1859.

211. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement in the manufacture of cast steel. *Letters Patent sealed.*

BROOMAN. 24th January 1859.

212. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in pumps."—*A communication from François Ruff, residing at Paris.* *Letters Patent sealed.*

LAUBEREAU. 24th January 1859.

213. JOSEPH LAUBEREAU, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in air engines. *Letters Patent sealed.*

SMITH. SMITH. 24th January 1859.

214. JOHN SMITH and WILLIAM HENRY SMITH, of 8, Upper Fountain Place, City Road, in the County of Middlesex, Manufacturers, for an invention for—"Certain improvements in manufacturing paper, and in producing watermarks, patterns, figures, letters and devices thereon, and in the construction of the mechanism employed therein." *Letters Patent sealed.*

SAVORY. BARKER. 24th January 1859.

215. JOHN SAVORY, of 143, New Bond Street, Chemist & Druggist, and WILLIAM ROBERT BARKER, of the same place, Chemist, for an invention for—"Improvements in bottles for medicines and poisons." *Letters Patent seale*

FOWLER. GREIG. BURTON. HEAD. 24th January 1859.

216. JOHN FOWLER, Junior, of Cornhill, ROBERT BURTON, of Kingsland, in the County of Middlesex, DAVID GREIG, of New Cross, in the County of Kent, and JEREMIAH HEAD, of Newcastle-on-Tyne, for an invention for—"Improvements in agricultural implements and in apparatus used for hauling agricultural implements by steam power." *Letters Patent sealed.*

WARNER. TOOTH. 24th January 1859.

217. ARTHUR WARNER, of 31, Threadneedle Street, in the City of London, and WILLIAM TOOTH, of Summer Street, Southwark, in the County of Surrey, for an invention for—"Improvements in the manufacture of iron and gases for such and other uses." *Letters Patent sealed.*

PROGER. DAVIES. 24th January 1859.

218. JOHN GUY PROGER, of 13, Trinity Street, Cardiff, and DAVID DAVIES, of Stuart Street, Bute Docks, Cardiff, in the County of Glamorgan, for an invention for—"Improvements in lanterns used on board ship to signal to the steersman." *Letters Patent sealed and specification filed by order.*

Earl of CAITHNESS. 24th January 1859.

219. The Right Honourable JAMES Earl of CAITHNESS, of Hill Street, in the County of Middlesex, for an invention for—"Improvements in parts of the permanent way of railways." *Provisional protection only.*

SWAN. 24th January 1859.

220. MICHAEL SWAN, of Henstridge Villas, St. John's Wood, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in ballasting ships, applicable also to the extinguishing fires on board ships." *Provisional protection only.*

TASKER. 24th January 1859.

221. WILLIAM TASKER, the younger, of the firm of William Tasker and Sons, of Waterloo Iron Works, near Andover, in the County of Hants, Engineers, for an invention for—"Improvements in ploughs." *Letters Patent sealed.*

OWEN. 24th January 1859.

222. HENRY OWEN, of Portswood, Southampton, in the County of Hampshire, for an invention for—"Improvements in stockings." *Letters Patent sealed.*

JOHNSON. 25th January 1859.

223. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting and shaping wood."—*A communication from Peter H. Niles, residing at Boston, in the United States of America.* *Letters Patent sealed.*

BODMER. 25th January 1859.

224. RUDOLPH BODMER, of 2, Thaives Inn, Holborn, in the City of London, for an invention for—"Improved resin and resinous substances."—*A communication from Mr. Jean Creuseton, residing at Paris, in the Empire of France.* *Letters Patent sealed.*

CUTTS. 25th January 1859.

225. WILLIAM CUTTS, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Improvements in the manufacture of bobbins, spools, and cop tubes, and in the machinery employed therein." *Provisional protection only.*

HODGSON. HODGSON. 25th January 1859.

226. WILLIAM HODGSON, & HENRY HODGSON, of Bradford, in the County of York, Tool and Machine Makers, for an invention for—"Improvements in machinery or apparatus for preparing and spinning wool and other fibrous substances." *Provisional protection only.*

WHITE. 25th January 1859.

227. JOHN WHITE, of Finchley, in the County of Middlesex, Surgeon, for an invention for—"Improvements in means or apparatus to facilitate respiration under water or under the influence of fire or in other situations where an artificial supply of air may be required, part of which improvements is also adapted to facilitate movement in or upon the surface of water." *Letters Patent sealed.*

ANDREWS. 25th January 1859.

228. WILLIAM ANDREWS, of 30, Cornhill, in the City of London, Engineer, of the Submarine Telegraph Company, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

JONES. 25th January 1859.

229. FREDERICK JOHN JONES, of Aldermanbury, in the City of London, Manufacturer, for an invention for—"An improvement in shirt fronts. *Provisional protection only.*

BRECKNELL. DYER. 25th January 1859.

230. HENRY BRECKNELL, of the City of Bristol, Brassfounder, and JOHN DYER, of the same place, Gentleman, for an invention for—"Improvements in cocks and valves." *Letters Patent sealed.*

WOODCOCK. 25th January 1859.

231. ISAIAH WOODCOCK, of Commercial Street, Spitalfields, in the County of Middlesex, Frame Manufacturer, for an invention for—"Improvements in barometer and thermometer dials." *Provisional protection only.*

SPEDDING. 25th January 1859.

232. BENJAMIN JOSEPH SPEDDING, of 9, Cross Street, Birkenhead, in the County of Chester, Patent Agent, for an invention for—"Improvements in apparatus for generating and regulating gas, and for impregnating the same with volatile hydrocarbon fluids." *Provisional protection only.*

KELVEY. HOLLAND. 25th January 1859.

233. CHARLES GRANT KELVEY, of Rock Ferry, Birkenhead, in the County of Chester, and WILLIAM HOLLAND, of the same place, Chronometer Makers, for an invention for—"An improved escapement for chronometers and other timekeepers." *Provisional protection only.*

NEWTON. 25th January 1859.

234. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in life preserving vests."—*A communication from T. A. Delano, residing in the United States of America.* *Letters Patent sealed.*

ALEXANDER. 26th January 1859.

235. WILLIAM RICHMOND ALEXANDER, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in furnaces and and apparatus for the manufacture of sugar and for the consumption or prevention of smoke." *Letters Patent sealed.*

HAMMOND. 26th January 1859.

236. ISAAC HAMMOND, of the City of Winchester, in the County of Hants, Gun Maker, for an invention for—"Improvements in breech loading fire-arms and in cartridges to be used therewith." *Letters Patent sealed.*

HUSSEY. 26th January 1859.

237. OBED HUSSEY, of Baltimore, United States of America, for an invention for—"Improvements in the construction of ships' blocks." *Letters Patent sealed.*

GRAHAM. 26th January 1859.

238. DAVID GRAHAM, of the firm of Graham, West, and Company, of Wapping, in the County of Middlesex, Millwrights and Engineers, for an invention for—"An improved method of driving centrifugal machines."—*A communication from T. Hanning, residing in the Mauritius.* *Letters Patent sealed.*

WELLS. CLOUGH. 26th January 1859.

239. JONAS WELLS, of Keighley, in the County of York, Brassfounder, and WILLIAM CLOUGH, of Sutton, near Keighley, aforesaid, Millwright, for an invention for—"An improved coupling for railway carriages and analogous uses." *Provisional protection only.*

PAULSEN. ALSING. 26th January 1859.

240. FREDERICK CARL CHRISTIAN PAULSEN, and ALBIN ALSING, both of Emmett Street, Limehouse, in the County of Middlesex, for an invention for—"Improvements in preparing beverages usually called punch." *Letters Patent sealed.*

FERNANDEZ. 26th January 1859.

241. MARK FERNANDEZ, of No. 2, Devonshire Square, Bishopsgate Street Without, in the City of London, Merchant, for an invention for—"Improvements in straw and hay cutters." *Provisional protection only.*

KERR. 26th January 1859.

242. JAMES KERR, of 17, Bedford Terrace, Trinity Square, Southwark, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of revolving fire-arms." *Letters Patent sealed.*

MERCER. 27th January 1859.

243. JAMES MERCER, of Boston, in the State of Massachusetts, United States, America, temporarily residing at Liverpool, in the County of Lancaster, Currier, for an invention for—"Improvements in the process of currying leather."—*A communication from Mr. Joseph Armstrong, Currier, residing in the County of Middlesex, and State of Massachusetts, America.* *Provisional protection only.*

AGER. 27th January 1859.

244. WILSON AGER, of Rhorsburg, in the County of Columbia, State of Pennsylvania, United States of America, for an invention for—"An improvement in machinery for cleaning rice." *Provisional protection only.*

HARTSHORNE. 27th January 1859.

245. THOMAS HARTSHORNE, of West Bromwich, in the County of Stafford, Brass Founder, for an invention for—"An improved metal to be used for making journey brasses for mills, rollers, forges, and all kinds of shafts and machinery, and also for shipping, and for bearings for shafts and journey brasses in general." *Letters Patent sealed.*

DIXON. WHITTAKER. 27th January 1859.

246. ELIJAH DIXON, of Preston, in the County of Lancaster, Mechanic, and HENRY WHITTAKER, of the same place, Mechanic, for an invention for—"Improvements in apparatus used in weaving textile fabrics." *Letters Patent sealed.*

MEACHAM. 27th January 1859.

247. JAMES MEACHAM, of Birmingham, in the County of Warwick, for an invention for—"Improvements in pens and penholders." *Provisional protection only.*

CUNNINGHAM. 27th January 1859.

248. HENRY DUNCAN PRESTON CUNNINGHAM, of Bury, near Gosport, in the County of Hants, Esquire, for an invention for—"An improvement in the rig of ships or vessels." *Provisional protection only.*

RAWSON. 27th January 1859.

249. HENRY RAWSON, of Leicester, for an invention for—"Improvements in machinery for preparing wool and other fibrous substances." *Letters Patent sealed.*

BUCKINGHAM. SALT. 27th January 1859.

250. JAMES BUCKINGHAM, of Walworth Common, in the County of Surrey, Civil Engineer, and GEORGE SALT, of Saltaire, near Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in the construction and adaptation of drawing and other rollers employed in drawing and compressing fibres, which improved construction of rollers is also applicable in compressing fabrics." *Letters Patent sealed.*

HUGHES. 27th January 1859.

251. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in the manufacture of biscuits."—*A communication from Messrs. Pascal and Sirben, residing at Toulouse, Département de la Haute Garonne, in the Empire of France.* *Letters Patent sealed.*

BRADBURY. KING. 27th January 1859.

252. GEORGE FRANCIS BRADBURY, of Oldham, in the County of Lancaster, and JOSEPH JACKSON KING, of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in certain apparatus applicable to sewing-machines." *Letters Patent sealed.*

CROWTHER. 27th January 1859.

253. WILLIAM CROWTHER, of Leeds, in the County of York, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of prussiates of potash or soda and in recovering a useful material therefrom." *Letters Patent sealed.*

GATHERCOLE. 27th January 1859.

254. JAMES GATHERCOLE, of Bath Terrace, Camberwell New Road, in the County of Surrey, Gentleman, for an invention for—"Improved machinery for manufacturing envelopes and paper bags." *Letters Patent sealed; no specification filed.*

ZACHERONI. 28th January 1859.

255. IGNAZIO ZACHERONI (Native of Italy), residing at Liverpool, in the County of Lancaster, Artist, for an invention for—"An improved mode or method of preventing the escape of smoke into the atmosphere, and in the construction of chimney 'pots' or 'tops' for curing smoky chimneys." *Letters Patent sealed.*

ROBERTSON. 28th January 1859.

256. WILLIAM ROBERTSON, of the City of Manchester, in the County of Lancaster, Mechanician, for an invention for—"A new apparatus for propelling boats on canals, rivers and lakes of moderate depth." *Letters Patent sealed.*

BARTHOLOMEW. 28th January 1859.

257. GEORGE BARTHOLOMEW, of the Town and County of Linlithgow, North Britain, Edge Tool Maker, for an invention for—"Improvements in shoes for horses and other animals requiring such shoes, and in the means of attaching the same to the feet." *Provisional protection only.*

AMOS. FRANCIS. 28th January 1859.

258. CHARLES EDWARDS AMOS, of the Grove, in the Borough of Southwark, Engineer, and JOHN FRANCIS, of Bangor, in North Wales, Engineer, for an invention for—"Improvements in water pressure engines and their application to pumping machinery." *Letters Patent sealed.*

PRINCE. 28th January 1859.

259. FREDERIC PRINCE, of 138, New Bond Street, in the County of Middlesex, Gun Maker, for an invention for—"A new breech-loading gun." *Letters Patent sealed.*

YATES. 28th January 1859.

260. WILLIAM YATES, of Mary Street, Bromley, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces." *Provisional protection only.*

GRIFFITHS. 28th January 1859.

261. ROBERT GRIFFITHS, of 69, Mornington Road, in the County of Middlesex, for an invention for—"Improvements in regulating the pressure of steam in steam-boilers, and in preventing the accumulation of deposit therein."—*Partly a communication from Charles Nelson Copeland, residing at New York.*" *Provisional protection only.*

WATSON. 28th January 1859.

262. HENRY WATSON, of High Bridge Works, Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of knotter plates used in the manufacture of paper." *Letters Patent sealed.*

BARCLAY. 28th January 1859.

263. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in obtaining and distributing or applying electricity and magnetism." *Provisional protection only.*

LEISLER. 29th January 1859.

264. LOUIS LEISLER, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in extracting metallic copper from the pyrites residum of vitriol works and from other substances."—*A communication from Doctor Hasenclever, residing at Aix la Chappel, in Prussia. Provisional protection only.*

LANE. 29th January 1859.

265. JOSIAH LANE, of West Bromwich, in the County of Stafford, Machinist, for an invention for—"New or improved machinery for the manufacture of screws and for tapping nuts for screws." *Letters Patent sealed.*

MAC KENZIE. 29th January 1859.

266. JAMES MACKENZIE, Manager to William Strode, of Saint Martin's le Grand, in the City of London, Gas Engineer, for an invention for—"An improved method of operating ventilating valves especially applicable to ventilating gas-burners." *Letters Patent sealed.*

MARINO. 29th January 1859.

267. JOSEPH MARINO, of the City of Stockholm, in the Kingdom of Sweden, Mechanician, for an invention for—"An inodorous closet or commode." *Letters Patent sealed.*

DAVIES. 29th January 1859.

268. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in apparatus applicable to measuring, regulating the pressure of and consuming gas for illumination."—*A communication from J. M. Legris, residing at Paris, in the Empire of France, Engineer. Provisional protection only.*

GRISSELL. 29th January 1859.

269. HENRY GRISSELL, of Regent's Canal Iron Works, Eagle Wharf Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for moving ships and vessels on slips or inclined ways." *Letters Patent sealed.*

DE BRONAC. DEHERRYPON. 29th January 1859.

270. JEAN JUSTIN ALBERT DE BRONAC, and AUGUSTIN JOSEPH MARTIAL DEHERRYPON, Civil Engineers, of Paris, in the Empire of France, for an invention for—"A new or improved process for treating metallic sulphurets, phosphurets, arseniurets, antimoniurets, and particularly sulphuretted ores of lead, antimony, copper, silver, zinc." *Letters Patent sealed.*

MEACHAM. 29th January 1859.

271. JAMES MEACHAM, of Birmingham, in the County of Warwick, for an invention for—"Improvements in apparatus for clasping and closing books, purses, reticules, and other similar articles, and for retaining and securing paper documents, letters, bills, and other memoranda." *Provisional protection only.*

SMITH. 31st January 1859.

272. THOMAS PLUNKETT SMITH, of Stanmore, in the County of Middlesex, Schoolmaster, for an invention for—"An apparatus for guiding or directing the pen or pencil in writing or drawing. *Letters Patent sealed.*

BENTLEY. 31st January 1859.

273. DANIEL BENTLEY, of Accrington, in the County of Lancaster, Millwright and Engineer, for an invention for—"Improvements in self-acting apparatus applicable to letter-press printing-machines for supplying and removing the paper." *Provisional protection only.*

RAYWOOD. 31st January 1859.

274. JOHN RAYWOOD, Engineer, of Wentworth, in the County of Yorkshire, for an invention for—"Certain improvements in the construction and method of working sewing-machines." *Letters Patent sealed.*

WILSON. 31st January 1859.

275. THOMAS WILSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in breech loading and other fire-arms." *Provisional protection only.*

ROBERTSON. 31st January 1859.

276. JAMES ROBERTSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in details by which motive force is transmitted in machinery." *Letters Patent sealed.*

NEWCOME. 31st January 1859.

277. HENRY JUSTINIAN NEWCOME, of Shenley, in the County of Herts, for an invention for—"An improved apparatus for heating or warming buildings." *Provisional protection only.*

BOOTH. 31st January 1859.

278. JOHN PETER BOOTH, of Cork, in the Kingdom of Ireland, Feather Factor, for an invention for—"Improvements in ventilating ships." *Letters Patent sealed.*

NEWTON. 31st January 1859.

279. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved method of extracting gold and silver from their ores."—*A communication from Lewis Solomon, residing in the United States of America.*

Provisional protection only.

GRIMOND. 1st February 1859.

280. JOSEPH GRIMOND, of the City of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of hearth rugs." *Letters Patent sealed.*

RIGOLIER. 1st February 1859.

281. LAURENT RIGOLIER, Engineer, residing at Lyon, Place Grolier 5, Rhône, in the Empire of France, for an invention for—"A new brake for railway carriages."

Letters Patent sealed.

HOSKING. COCK. 1st February 1859.

282. JOHN HOSKING, of No. 5, Catherine Terrace, Gateshead-on-Tyne, in the County of Durham, and THOMAS COCK, of Cleator Moor, near Whitehaven, in the County of Cumberland, for an invention for—"Improvements in furnaces or fire-places." *Letters Patent sealed; no specification filed.*

EVELEIGH. 1st February 1859.

283. SAMUEL BIRCHALL EVELEIGH, of Salford, in the County of Lancaster, Hat Manufacturer, for an invention for—"An improved form or construction of hats or covering for the head." *Letters Patent sealed.*

NEEDHAM. 1st February 1859.

284. RICHARD NEEDHAM, of Dukinfield, in the County of Chester, Engineer, for an invention for—"An improved water-gauge for steam-boilers."

Letters Patent sealed.

PLIMSOLL. 1st February 1859.

285. SAMUEL PLIMSOLL, of No. 32, Hatton Garden, E.C., London, in the County of Middlesex, Coal Merchant, for an invention for—"Mining apparatus for use in mining coal and other minerals, and also for separating the small coal and crushed ores from the shale, dirt, and other matters with which it may be in combination, and for drying the same." *Provisional protection only.*

WALKER. WALKER. 1st February 1859.

286. MARY ANN WALKER, of the firm of Charlotte and Mary Ann Walker, trading under the name of Richard Walker, as Percussion Cap Manufacturers, of Graham Street, Birmingham, in the County of Warwick, and RICHARD WALKER, Manager of the said Works, also of Birmingham as aforesaid, for an invention for—"Certain improvements in the manufacture of percussion-caps and in the apparatus for effecting certain parts of the same." *Provisional protection only.*

GORMULLY. 1st February 1859.

287. ROBERT GORMULLY, of 13, Grafton Street, Fitzroy Square, Parish of St. Pancras, Middlesex, for an invention for—"Improvement of piano-fortes with upright frames." *Provisional protection only.*

PURSSGLOVE. 1st February 1859.

288. THOS. PARAMORE PURSSGLOVE, Battersea, Surrey, for an invention for—"Improvements in barometers." *Provisional protection only.*

BROOMAN. 1st February 1859.

289. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in sewing machines."—*A communication by J. P. Pirsson, residing in New York.*

Letters Patent sealed.

WALLER. 1st February 1859.

290. GEORGE ARTHUR WALLER, of the City of Dublin, Brewer to Arthur Guinness, Son & Co., for an invention for—"Improvements in the means of and apparatus for expressing liquid from semi-fluid substances and other substances containing liquid." *Letters Patent sealed.*

LOAM. 1st February 1859.

291. MICHAEL LOAM, of Treskerby House, Truro, Cornwall, for an invention for—"Improvements in machinery for raising sewage and other waters and matters."

Letters Patent sealed.

CROCKFORD. 1st February 1859.

292. CHARLES CROCKFORD, of Holywell, Flintshire, Smelter, for an invention for—"A mode or method of producing metallic sulphates."

Provisional protection only.

HENRY. 1st February 1859.

293. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"The manufacture and useful applications of certain bituminous products and compounds of bitumen with other matters, and treating and applying certain natural bitumen or bitumens for such purposes."—*A communication from Moisant and Company, residing at Havannah.* *Provisional protection only.*

BENTALL.
1st February 1859.

294. EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the County of Essex, Ironfounder, for an invention for—"Improvements applicable to machinery for grinding or pulverizing various substances." *Letters Patent sealed.*

NEWTON.
1st February 1859.

295. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved blowing machine."—*A communication from Mr. Antoine Louis Hyacinthe Fiefnet de Sauville, of Paris, in the Empire of France.* *Letters Patent sealed.*

ALLEN.
2nd February 1859.

296. EDWARD ELLIS ALLEN, of Brompton Row, in the County of Middlesex, Engineer, for an invention for—"Improvements in stereoscopic apparatuses." *Letters Patent sealed.*

WILKINS.
2nd February 1859.

297. EDWARD WILKINS, of No. 7, Addington Place, Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in drain pipes and tiles for draining and liquid manuring land." *Letters Patent sealed.*

LANCASTER.
2nd February 1859.

298. ROBERT LANCASTER, of Orrell, near Wigan, in the County of Lancaster, Mining Engineer and Viewer, for an invention for—"An improved mode of ventilating coal and other mines." *Provisional protection only.*

RATEAU.
2nd February 1859.

299. FRANÇOIS FÉLIX RATEAU, of No. 60, Boulevart de Strasbourg, Paris, Practical Engineer, for an invention for—"An improved steam engine actuated by regenerated steam." *Provisional protection only.*

COOPER.
2nd February 1859.

300. JOSEPH ROCK COOPER, of Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"Improvements in breech loading fire-arms." *Provisional protection only.*

TEARNE.
2nd February 1859.

301. SAMUEL TEARNE, of Birmingham, in the County of Warwick, Japanner, for an invention for—"Improvements in ornamenting surfaces." *Letters Patent sealed.*

BUNCHER.
2nd February 1859.

302. JOHN BUNCHER, of Birmingham, in the County of Warwick, Brass Founder, for an invention for—"Improvements in the manufacture of eyes or fastenings for stair rods." *Letters Patent sealed.*

CLEMENTS.
2nd February 1859.

303. ISAAC CLEMENTS, of Birmingham, in the County of Warwick, Warehouse Clerk, for an invention for—"A new or improved method of manufacturing curtain rings." *Letters Patent sealed.*

HIRST.
HOLLINGWORTH.
2nd February 1859.

304. JOHN HIRST, Junior, of Dobscross, in Saddleworth, in the County of York, Merchant, and JAMES HOLLINGWORTH, of the same place, Joiner, for an invention for—"Improvements in the construction of power looms." *Letters Patent sealed.*

LEACH.
2nd February 1859.

305. GEORGE LEACH, of Leeds, in the County of York, Yarn Spinner and Cloth Manufacturer, for an invention for—"Improvements in leashing yarn or thread in the hank, and in machinery for winding off the same." *Letters Patent sealed.*

KEMP.
SKEY.
2nd February 1859.

306. HENRY FRIDLINGTON KEMP & WILLIAM SKEY, of the Root Distillery, Louth, Lincolnshire, for an invention for—"An improved food for cattle." *Provisional protection only.*

STORER.
3rd February 1859.

307. THOMAS STORER, of Birmingham, in the County of Warwick, Undertaker and Funeral Carriage Proprietor, for an invention for—"A new or impoved funeral carriage." *Letters Patent sealed.*

WOODROW.
3rd February 1859.

308. JEREMIAH WOODROW, of Oldham, in the County of Lancaster, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats or covering for the head." *Provisional protection only.*

CLAYTON.
GOODFELLOW.
3rd February 1859.

309. WILLIAM CLAYTON & JACOB GOODFELLOW, both of Blackburn, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in metallic pistons." *Letters Patent sealed.*

JENNINGS.
3rd February 1859.

310. HENRY CONSTANTINE JENNINGS, of 8, Great Tower Street, in the City of London, Practical Chemist, for an invention for—"Improvements in the manufacture of paper and artificial parchment, and of gelatine applicable to the sizing of the same and other purposes." *Letters Patent sealed.*

PETRIE.
WRIGLEY.
3rd February 1859.

311. JOHN PETRIE, Junior, of Rochdale, in the County of Lancaster, Machinist, and THOMAS WRIGLEY, of Heap Bridge, in the said County, Paper Manufacturer, for an invention for—"Improvements in machinery or apparatus for washing rags and other materials for the manufacture of paper." *Letters Patent sealed.*

DAVISON.
3rd February 1859.

312. SAMUEL DOBSON DAVISON, of Leith, in the County of Mid Lothian, North Britain, Engineer, for an invention for—"Improvements in locomotive steam-engines." *Letters Patent sealed.*

POOLEY.
3rd February 1859.

313. ALEXANDER GOPSELL POOLEY, of Globe Wharf, Rotherhithe, in the County of Surrey, Agricultural Chemist, for an invention for—"Improvements in preparing fish for manure and in apparatus for the same." *Provisional protection only.*

SMITH.
4th February 1859.

314. MARK SMITH, of the firm of William Smith and Brothers, of the Sun Foundry, Heywood, in the County of Lancaster, Machine Makers, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

GREAVES.
4th February 1859.

315. HUGH GREAVES, of 5, Victoria Street, in the City of Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the preparation of iron bars of the various forms or sections used in the construction of sheet iron structures, and in machinery employed for the same." *Provisional protection only.*

THOMPSON.
4th February 1859.

316. WARREN THOMPSON, of 2, Rue Sainte Appoline, Paris (France), and of 45, Essex Street, Strand, London, for an invention for—"An improved printing telegraph." *Provisional protection only.*

ALLAN.
4th February 1859.

317. ALEXANDER ALLAN, of Perth, in the County of Perth, North Britain, Engineer, for an invention for—"Improvements in locomotive steam-engines, in part applicable for retarding and stopping railway trains." *Letters Patent sealed.*

HART.
4th February 1859.

318. JOHN WOOLLEY HART, of 45, Evelyn Street, Lower Road, Deptford, for an invention for—"Raising water or other liquids, and compressing and forcing fluids, atmospheric air, or other aëriform bodies." *Provisional protection NOT granted.*

TROTMAN.
4th February 1859.

319. SIMON LEE TROTMAN, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements for the more effectually securing or fastening envelopes or other like receptacles, and the more securely affixing postage stamps or other adhesive labels." *Provisional protection only.*

BROOMAN.
4th February 1859.

320. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improvement in cooling worts and beer."—*A communication from Madame Jolibois, residing at Dijon, France.* *Letters Patent sealed.*

BROOMAN.
4th February 1859.

321. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in shirts."—*A communication from L. Levy Neyman, residing in Paris.* *Provisional protection only.*

BAYLIS.
ROBINSON.
4th February 1859.

322. GEORGE HENRY BAYLIS, of 13, Vauxhall Walk, Lambeth, in the County of Surrey, and FRANCIS ROBINSON, of 88, Salisbury Street, Lisson Grove, in the County of Middlesex, for an invention for—"An improved indicator for registering the withdrawal of liquids from vessels." *Letters Patent sealed.*

MABERLY.
4th February 1859.

323. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"Improvements in obtaining spring power and in its application to various purposes." *Letters Patent sealed.*

BONNEAU.
4th February 1859.

324. LOUIS BONNEAU, of No. 279, Rue St. Denis, in the City of Paris, Civil Engineer, for an invention for—"Improvements in apparatus for registering the time carriages are employed in conveying persons from place to place, and also in moving from place to place when unoccupied." *Provisional protection only.*

MASSON.
4th February 1859.

325. JACQUES MARIE EDOUARD MASSON, of Rue des Fossés St. Thomas, Evreux, France, Gentleman, for an invention for—"Improvements in apparatus to facilitate working under water." *Complete specification; Letters Patent sealed.*

ADIE.
4th February 1859.

326. PATRICK ADIE, of the Strand, in the County of Middlesex, Mathematical Instrument Maker, for an invention for—"Improvements in apparatus for taking levels and measuring angles." *Letters Patent sealed.*

PACKER.
4th February 1859.

327. WILLIAM ROBERT JUSTICE PACKER, of No. 4, Leinster Street, in the Parish of St. Mark's, and County of the City of Dublin, Dyer and Scourer, for an invention for—"Improvements in the plough or ploughshare for the purpose of more effectually pulverizing, breaking up or cutting into small particles the earth or sod separated from the ground by the ploughshare." *Provisional protection only.*

HONEYMAN. 4th February 1859.

328. JOHN HONEYMAN, of Glasgow, in the County of Lanark, North Britain, Miller, for an invention for—"Improvements in the construction of ships, vessels, and boats, and in propellers for propelling the same." *Letters Patent sealed.*

BARCLAY. 4th February 1859.

329. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in electric-magnetic or electro-magnetic telegraph ropes or conductors, and in machinery or apparatus to be used on board ships for laying or paying out the same." *Provisional protection only.*

CLARK. 4th February 1859.

330. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the means or apparatus for preserving grain, flour, eggs, and other vegetable and animal substances." —*A communication from abroad by Louis Jacques Chateau, of Paris, Notary.* *Letters Patent sealed.*

MABERLY. 5th February 1859.

331. FREDERICK HERBERT MABERLY, of Stowmarket, in the County of Suffolk, Master of Arts, for an invention for—"Improvements in apparatus for corking, for drawing corks, in taps, in the necks of bottles, in the bungholes of barrels, and in similar articles." *Provisional protection only.*

GREENHALGH. SHAW. MALLISON. 5th February 1859.

332. NATHANIEL GREENHALGH, of Bolton, in the County of Lancaster, Cotton Spinner, and WILLIAM SHAW, of the same place, Cotton Spinner, and JAMES MALLISON, Junior, of the same place, Yarn Agent, for an invention for—"Certain improvements in the treatment and preparation of yarns or threads previously to dyeing." *Letters Patent sealed.*

TINKLER. 5th February 1859.

333. ROBERT TINKLER, of Penrith, in the County of Cumberland, Churn Manufacturer, for an invention for—"Improvements in churns." *Letters Patent sealed.*

ANDERSON. 5th February 1859.

334. HENRY ANDERSON, of Liverpool, in the County of Lancaster, Mechanic, for an invention for—"An improved construction of apparatus for winding window-blinds, sun-shades, and similar articles on their rollers." *Provisional protection only.*

SYKES. SYKES. 5th February 1859.

335. THOMAS SYKES, of Cleckheaton, in the County of York, Manufacturing Chemist, and BENJAMIN CLIFFORD SYKES, of the same place, M.D., for an invention for—"Improvements in obtaining or separating oily, fatty, greasy, tarry, waxy, and resinous substances from oleaginous seeds, nuts and fruits, wool, silk, hair, cotton, flax, line, hemp, furs, skins, leather, bones, fish, and other animal matters and refuse, woollen and cotton waste and refuse, also textile fabrics, and refuse grease produced in various branches of industry, indigo, lac, lac dye, and other dyes." *Letters Patent sealed.*

AYERST. 5th February 1859.

336. THOMAS RUSSELL AYERST, of Newenden, in the County of Kent, Book keeper, for an invention for—"Improvements in breech loading guns and other fire-arms."—*A communication from abroad by James Hunter Sears, of Brantford, in the County of Brant, Upper Canada.* *Letters Patent sealed.*

BOOTH. FARMER. 5th February 1859.

337. MAJOR BOOTH, of Manchester, in the County of Lancaster, Finisher, and JAMES FARMER, of Salford, in the same County, Machinist, for an invention for—"Improvements in sizing or stiffening woven fabrics." *Provisional protection only.*

CHANTRELL. 7th February 1859.

338. GEORGE FREDERIC CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, for an invention for—"Improvements in the treatment of charcoal after its manufacture or revivification." *Letters Patent sealed.*

HOLROYD. 7th February 1859.

339. JAMES HOLROYD, of Leeds, in the County of York, Cloth Finisher, for an invention for—"An improvement in apparatus used in finishing woollen and other cloths." *Provisional protection only.*

LYONS. 7th February 1859.

340. ABRAHAM LYONS, of the Office for Patents, 77, Chancery Lane, in the County of Middlesex, for an invention for—"A pocket protector." *Provisional protection only.*

CRISPIN. 7th February 1859.

341. WILLLIAM HENRY CRISPIN, of Marsh Gate Lane, Stratford, in the County of Essex, Copper Smelter, for an invention for—"An improved atmospheric and hydraulic engine for sailing and steam vessels." *Provisional protection only.*

CURTIS. MILLER. 7th February 1859.

342. MATTHEW CURTIS, of the City of Manchester, in the County of Lancaster, Machinist, and JOHN MILLER, of Stayley Bridge, in the said County, Manager, for an invention for—"Improvements in certain mules for spinning cotton and other fibrous substances." *Letters Patent sealed.*

LEE.
7th February 1859.

343. JOSEPH LEE, of 18, Monson Street, Lincoln, for an invention for—"Improvements in the manufacture of cranks for steam-engines and other purposes."
Letters Patent sealed.

SIMS.
7th February 1859.

344. THOMAS SIMS, of Conduit Street, Regent Street, in the County of Middlesex, for an invention for—"Improvements in the application of photography to engraving and printing." *Provisional protection only.*

HUGHES.
7th February 1859.

345. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for "Improvements in ovens."—*A communication from Herr von Langen, Royal Architect, of Berlin, in the Kingdom of Prussia.* *Provisional protection only.*

SMITH.
7th February 1859.

346. JOHN SMITH, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in machinery or apparatus for preparing and combing wool and other fibrous substances." *Letters Patent sealed.*

WILSON.
7th February 1859.

347. JOHN WILSON, of 55, John Street, Sunderland, for an invention for—"Improvements in ventilating mines and in combining apparatus used for such purpose." *Letters Patent sealed.*

MOSS.
8th February 1859.

348. THOMAS MOSS, of 69, Fleet Street, in the City of London, in the employment of Messrs. Perkins, Bacon & Co., for an invention for—"Improvements in the manufacture of paper and printing ink suitable for bank notes, bills of exchange, and other documents requiring like security against being copied."
Letters Patent sealed.

HUGHES.
8th February 1859.

349. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for sorting and numbering the threads or filaments of silk or other fibrous materials."—*A communication from Fabius Mainardi, Merchant, of Lyons, in the Empire of France.* *Provisional protection only.*

HOSKING.
8th February 1859.

350. JAMES HOSKING, Oil Merchant, of Walworth Common, in the County of Surrey, for an invention for—"Improvements in the manufacture of lamps."
Letters Patent sealed.

THOMAS.
8th February 1859.

351. GEORGE THOMAS, of No. 47, Hampton Street, Paddington, in the County of Middlesex, Plasterer, for an invention for—"A double bottomed horse-shoe."
Provisional protection only.

BAGNICKI.
8th February 1859.

352. Doctor ERNST BAGNICKI, of New York, of the County and State of New York, in the United States of America, for an invention for—"An improved syringing apparatus for curing leucorrhea and similar sexual diseases."
Letters Patent sealed.

WALLER.
8th February 1859.

353. WILLIAM WALLER, of Chesterfield, in the County of Derby, Mechanical Engineer, for an invention for—"Improvements in agricultural or farm implements or apparatus."—*Partly a communication from William Rogers, residing at Toronto, Canada West.* *Provisional protection only.*

ROWNTREE.
8th February 1859.

354. ROBERT RITSON ROWNTREE, of Kingston-upon-Hull, in the County of York, for an invention for—"A portable tea testing apparatus."
Provisional protection only.

ASPINALL.
8th February 1859.

355. JOHN ASPINALL, of Great Tower Street, in the City of London, Civil Engineer, for an invention for—"An improvement in the refining of sugar."
Letters Patent sealed.

REDMAN.
8th February 1859.

356. JOHN BALDRY REDMAN, of New Palace Yard, in the City of Westminster, Civil Engineer, for an invention for—"An improvement in the construction of carriage ways." *Letters Patent sealed.*

CLARK.
8th February 1859.

357. ALEXANDER CLARK, of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineer and Revolving Shutter Manufacturer, for an invention for—"Improvements in revolving shutters and blinds and in apparatus connected therewith." *Letters Patent sealed.*

CLARK.
8th February 1859.

358. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improved protectors for tobacco plants."—*A communication from abroad by Jules Romiguiere, of Paris, Advocate.*
Provisional protection only.

CRESSEY. 8th February 1859.

359. THOMAS STOKES CRESSEY, of High Street, Homerton, in the County of Middlesex, for an invention for—"Improvements in machinery used in the manufacture of casks." *Letters Patent sealed.*

JUCKES. 8th February 1859.

360. JOHN JUCKES, of Dame Street, Wharf Road, City Road, Islington, for an invention for—"Improvements in stoves or fireplaces." *Provisional protection only.*

WILKINS. 9th February 1859.

361. EDWARD WILKINS, of No. 7, Addington Place, Camberwell Road, in the County of Surrey, Gentleman, for an invention for—"Improvements in flower vases." *Letters Patent sealed.*

JOSEPH. 9th February 1859.

362. JOHN STEPHEN JOSEPH, of Rhostyllan, near Wrexham, in the County of Denbigh, North Wales, for an invention for—"Improvements in coke ovens and in cooling and extinguishing coke." *Letters Patent sealed.*

ARCHER. 9th February 1859.

363. WILLIAM ARCHER, of Bolton, in the County of Lancaster, Jacquard Machine Maker, for an invention for—"Certain improvements in jacquard machines." *Provisional protection only.*

JEFFERIES. 9th February 1859.

364. HUMPHREY JEFFERIES, of Birmingham, in the County of Warwick, Button Maker, for an invention for—"An improvement in castors." *Provisional protection only.*

CROSSLEY. 9th February 1859.

365. JOSEPH CROSSLEY, of Halifax, for an invention for—"Improvements in the means employed when steaming printed yarns." *Letters Patent sealed.*

TAYLOR. WILD. 9th February 1859.

366. JAMES TAYLOR, of Stalybridge, Machinist, and CHARLES WILD, of Oldham, Doubler, both in the County of Lancaster, for an invention for—"Improvements in self-acting mules for spinning and doubling." *Provisional protection only.*

JOHNSON. 9th February 1859.

367. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fire-arms."—*A communication from William H. Bell, residing at the City and County of Washington, in the District of Columbia.* *Letters Patent sealed.*

BOWER. 9th February 1859.

368. GEORGE BOWER, of Saint Neots, in the County of Huntingdon, Gas Engineer, for an invention for—"Improvements in apparatus for the manufacture of illuminating gas." *Letters Patent sealed.*

M^cCONNELL. 9th February 1859.

369. JAMES EDWARD M^cCONNELL, of Wolverton, in the County of Bucks, Civil Engineer, for an invention for—"Improvements in steam-boilers and in the generation and treatment of steam." *Letters Patent sealed.*

NEWTON. 9th February 1859.

370. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of bleaching and purifying or refining sugar and vegetable juices or extracts."—*A communication from abroad by Emile Rousseau, of Paris, in the Empire of France.* *Letters Patent sealed.*

HERRING. 9th February 1859.

371. EDWARD HERRING, of the Heath, Weybridge, in the County of Surrey, for an invention for—"Improvements in the mashing and fermenting of grain for the production of alcohol." *Letters Patent sealed.*

NEWTON. 9th February 1859.

372. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in breech-loading fire-arms, and in cartridges to be used with such fire-arms."—*A communication from abroad by Gilbert Smith, of the State of New York, in the United States of America.* *Letters Patent sealed.*

BURT. 10th February 1859.

373. HENRY POTTER BURT, of Charlotte Row, Mansion House, in the City of London, for an invention for—"Improvements in railway carriages and waggons."—*Letters Patent sealed.*

YOUNG. 10th February 1859.

374. JOHN YOUNG, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"An improvement or improvements in the construction of knobs and the roses used for connecting knobs with doors and with the cases of locks and latches and other like fastenings." *Letters Patent sealed.*

TAYLOR. 10th February 1859.

375. JOHN GEORGE TAYLOR, of Paris, and of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in writing materials and the manufacture thereof." *Provisional protection only.*

COVERT.
10th February 1859.

376. WILLIAM ADOLPHE COVERT, of Long Island, New York, in the United States of America, for an invention for—"An improved self-acting railway switch."—*A communication from Charles L. Spencer, residing at Rhode Island, U.S.A.*
Letters Patent sealed.

ELLIS.
10th February 1859.

377. ROBERT JOSEPH ELLIS, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in the apparatus for lifting sunken vessels, and other submerged bodies." *Letters Patent sealed.*

STOCKS.
10th February 1859.

378. GEORGE LOUIS STOCKS, of Bridge Road, Poplar, in the County of Middlesex, Ship Chandler, for an invention for—"Improvements in steering apparatuses."
Provisional protection only.

INGER.
10th February 1859.

379. HECTOR INGER, of No. 3, Red Lion Square, Holborn, in the County of Middlesex, Commission Agent, for an invention for—"The improvement of blinkers used by horses whilst drawing, to be called 'The Patent Safety Blinker.'"—*A communication from Edouard Souché, 1, Rue Charlot Auxternes, Paris, in the Empire of France, Agent.* *Provisional protection only.*

BURROWS.
10th February 1859.

380. BENJAMIN BURROWS, of Leicester, for an invention for—"Improvements in looms for weaving narrow fabrics." *Letters Patent sealed.*

PERRY.
10th February 1859.

381. CRANLEY LANCELOT PERRY, of Sheepstead Farm, Marcham, in the County of Berks, for an invention for—"An agricultural implement for paring and ploughing land." *Provisional protection only.*

BILLING.
KLOEN.
11th February 1859.

382. MARTIN BILLING, of Birmingham, in the County of Warwick, Stationer, and WILLIAM KLOEN, of Aston, near Birmingham aforesaid, Commercial Traveller, for an invention for—"A method of and apparatus for decolourizing tea."
Provisional protection only.

EVANS.
11th February 1859.

383. JAMES EVANS, of Tarlton Street, Liverpool, in the County of Lancaster, Coach Builder, for an invention for—"An improvement in 'Hansom' cabs."
Letters Patent sealed.

PARKINSON.
11th February 1859.

384. JAMES PARKINSON, of Manchester, in the County of Lancaster, Dentist, for an invention for—"A certain improvement in coffins."
Provisional protection only.

BENNETT.
11th February 1859.

385. NICHOLAS BENNETT, of 4, Furnival's Inn, in the City of London, Gentleman, for an invention for—"Improvements in the construction of brooms or brushes for sweeping or cleansing streets, roads, and thoroughfares, also applicable to domestic purposes." *Provisional protection only.*

BRUCE.
11th February 1859.

386. HENRY BRUCE, of Kinleith Mill, Currie, in the County of Mid-Lothian, North Britain, Paper Manufacturer, for an invention for—"Improvements in apparatus for the manufacture of paper." *Letters Patent sealed.*

HYDE.
11th February 1859.

387. GEORGE HYDE, of 61, Fleet Street, in the City of London, Stationer and Manufacturer, for an invention for—"A pen for producing a copy or copies of a letter or other writing simultaneously with the production of the original."
Provisional protection only.

COGAN.
11th February 1859.

388. ROBERT COGAN, of Red Lion Square, in the County of Middlesex, Glass Dealer, for an invention for—"Improved instruments for crushing and mixing solid and liquid substances." *Letters Patent sealed.*

BARTLETT.
11th February 1859.

389. HENRY ALBERT BARTLETT, of Thetford, in the County of Suffolk, for an invention for—"Improvements in machinery to be used with or without the plough for clearing and cleaning land from weeds." *Provisional protection only.*

JACKSON.
11th February 1859.

390. CHARLES JACKSON, of Store Street, Bedford Square, in the County of Middlesex, Piano-forte Manufacturer, for an invention for—"Improvements in the action of piano-fortes." *Letters Patent sealed.*

GRIMES.
11th February 1859.

391. JAMES GRIMES, of 6, Osborn Street, Whitechapel, Pewterer and Beer Engine Manufacturer, for an invention for—"Improvements in beer engines."
Letters Patent sealed.

RANSFORD.
11th February 1859.

392. HENRY RANSFORD, of West Brompton, in the County of Middlesex, for an invention for—"An improvement in building ships and other vessels."
Provisional protection only.

HADWEN.
WADSWORTH.
12th February 1859.

393. GAYLARD HADWEN, of Audenshaw, in the County of Lancaster, and JOHN WADSWORTH, of Droylsden, in the said County, for an invention for—"Improvements in jacquard apparatus applicable to power looms." *Letters Patent sealed.*

LEA.
12th February 1859.

394. HENRY LEA, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in changing or reversing motion." *Provisional protection only.*

WILLIS.
CHELL.
12th February 1859.

395. THOMAS WILLIS and GEORGE CHELL, both of Longsight, near the City of Manchester, Machine Makers, for an invention for—"Improvements in machinery for spinning, twisting, doubling and winding yarns and threads." *Letters Patent sealed.*

MOATE.
12th February 1859.

396. CHARLES ROBERT MOATE, of 65, Old Broad Street, in the City of London, Metal Broker, for an invention for—"Improvements in the manufacture of nuts, screw bolts, spikes, and other headed fastenings."—*A communication from abroad by Joseph Gibbs, of Alexandria, in Egypt, Gentleman.* *Provisional protection only.*

CRABTREE.
12th February 1859.

397. JAMES CRABTREE, of Market Street, Bradford, in the County of York, Commission Agent, for an invention for—"Improvements in the manufacture of bobbins and spools." *Provisional protection only.*

HUNTLY.
12th February 1859.

398. SAMUEL HAZARD HUNTLY, of Upper Baker Street, in the County of Middlesex, for an invention for—"Improvements in cooking apparatus." *Letters Patent sealed.*

WHITE.
JENKINS.
12th February 1859.

399. THOMAS WHITE, of Portsmouth, in the County of Southampton, Shipbuilder, and GEORGE JENKINS, of the same place, Engineer, for an invention for—"Improvements in apparatus for raising and lowering ships along inclined slips." *Letters Patent sealed.*

BENNETT.
BENNETT.
12th February 1859.

400. JAMES BENNETT and JOHN BENNETT, of the firm of Bennett and Sons, of Kingsland Road, in the County of Middlesex, Engineers, for an invention for—"An improvement in refrigerators for cooling beer and worts." *Letters Patent sealed.*

BETJEMANN.
BETJEMANN.
BETJEMANN.
12th February 1859.

401. GEORGE BETJEMANN, GEORGE WILLIAM BETJEMANN, and JOHN BETJEMANN, all of Upper Ashby Street, in the County of Middlesex, Desk and Dressing Case Makers, for an invention for—"Improvements in book slides." *Letters Patent sealed.*

RAWBONE.
12th February 1859.

402. WILLIAM GEORGE RAWBONE, of Gloucester Street, in the County of Middlesex, Gun Maker, for an invention for—"Improvements in fire-arms and ordnance." *Provisional protection only.*

BOUSFIELD.
12th February 1859.

403. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in revivifying the scarlet color of woollen cloth, lace, and embroidery in use for military and other garments and furniture."—*A communication from abroad by Messrs. Andrés, Burdel & Chicard, of Paris.* *Provisional protection only.*

GARDNER.
12th February 1859.

404. HENRY GARDNER, of 1, Old Quebec Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in machinery for breaking and preparing flax and other fibres." *Letters Patent sealed.*

BELL.
12th February 1859.

405. ROBERT BELL, of Paris, in the Empire of France, and of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in separating and recovering wool from fabrics composed of wool or wool in connection with cotton and other vegetable substances." *Letters Patent sealed.*

NEWTON.
12th February 1859.

406. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in breech-loading fire-arms."—*A communication from abroad by James H. Merrill, of the United States of America.* *Letters Patent sealed.*

NEWTON.
12th February 1859.

407. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in sewing machines."—*A communication from abroad by James Stebbings Moody, of the United States of America.* *Provisional protection only.*

PARKINSON.
14th February 1859.

408. JAMES PARKINSON, of Manchester, in the County of Lancaster, Dentist, for an invention for—"Certain improvements in coffins." *Letters Patent sealed.*

HUNT.
14th February 1859.

409. THOMAS HUNT, of Crewe, in the County of Chester, Engineer, for an invention for—"Improvements in steam boilers or generators and in the prevention or combustion of smoke." *Letters Patent sealed.*

SANDERS.
14th February 1859.

410. CHARLES SANDERS, Photographic Mat Manufacturer, of Harford Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in ornamenting English passe-partouts for photographic pictures, also the glasses used with the same, and which said modes of ornamenting are also applicable to ornamenting photographic frames generally." *Letters Patent sealed.*

WRIGHT.
14th February 1859.

411. JOHN WRIGHT, of New George Street, Sheffield, in the County of York, Spring Manufacturer, for an invention for—"Improvements in reducing and rolling steel and iron wire, and other forms of those metals in long lengths." *Letters Patent sealed.*

CLARK.
14th February 1859.

412. JOSIAH LATIMER CLARK, of Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in the means of working railway signals and switches." *Letters Patent sealed.*

COPCUTT.
14th February 1859.

413. JAMES COPCUTT, of 26, Kirby Street, Hatton Garden, in the County of Middlesex, for an invention for—"Improvements in obtaining light from gases." *Letters Patent sealed.*

CLEGG.
ANGERSTEIN.
PAGE.
14th February 1859.

414. ROBERT CLEGG, of Islington, in the County of Middlesex, FREDERICK ANGERSTEIN, of Kennington, in the County of Surrey, and JOHN WILLIAM PAGE, of Walworth Road, in the County of Surrey, for an invention for—"Improvements in making soap." *Letters Patent sealed.*

CLARKE.
14th February 1859.

415. ALFRED BUTTON CLARKE, of Edward Street, Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in discharging sewage and water from lands into tidal rivers, and in flooding lands therefrom, also conveying sewage and other waters or liquids across canals and over structures, part of such said improvements being applicable as a substitute for sluice cocks and valves." *Provisional protection only.*

ALDRICH.
15th February 1859.

416. EDWARD HENRY ALDRICH, of Shoreditch, in the County of Middlesex, for an invention for—"Improvements in ladies' dress caps." *Provisional protection only.*

ROBERTS.
15th February 1859.

417. CHARLES LEWIS ROBERTS, of Clerkenwell, in the County of Middlesex, for an invention for—"The manufacture of an improved cigar." *Provisional protection only.*

MUSHET.
15th February 1859.

418. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of steel, iron, and cast steel." *Letters Patent sealed.*

WALTERS.
15th February 1859.

419. FREDERICK WALTERS, of Sheffield, in the County of Yorkshire, for an invention for—"The application of the waste heat from puddling furnaces." *Provisional protection only.*

RAYMOND.
15th February 1859.

420. WALTER RAYMOND, of No. 4, Albion Square, Dalston, in the County of Middlesex, Master Mariner, for an invention for—"An improved life-raft." *Letters Patent sealed.*

PATERSON.
15th February 1859.

421. JOHN PATERSON, of Wood Street, in the City of London, Manufacturer, for an invention for—"Improvements in brace buckles and loops, and in braces." *Letters Patent sealed.*

JONES.
15th February 1859.

422. JOHN THOMAS JONES, of Glasgow, in the County of Lanark, North Britain, Machinist, for an invention for—"Improvements in sewing machines." *Letters Patent sealed.*

BEDSON.
15th February 1859.

423. GEORGE BEDSON, of Manchester, in the County of Lancaster, Manager for Messrs. Richard Johnson and Brother, Wire Manufacturers, for an invention for—"Improvements in joining wire for telegraphic and other purposes." *Letters Patent sealed.*

TOURRIER.
16th February 1859.

424. JEAN FUREY TOURRIER, of 41, Manchester Street, Manchester Square, Middlesex, for an invention for—"Preventing oscillation of the last carriage of a railway train, and giving rigidity and steadiness throughout the train." *Provisional protection only.*

CRAWFORD. 16th February 1859.

425. MATTHEW CRAWFORD, of Liverpool in the County of Lancaster, Ship Chandler, Ship Painter, Iron Monger, &c., for an invention for—"An improved anti-fouling metallic varnish, applicable to ships' bottoms and other similar purposes." *Provisional protection only.*

BAILEY. 16th February 1859.

426. SAMUEL BAILEY, Mining Engineer, of Wednesbury, in the County of Stafford, for an invention for—"Certain apparatus for preventing the skip in mine operations being pulled over the pulley on which the rope or chain works to which such skip or cage may be attached, as well as preventing the skip or cage re-descending until put in motion for that purpose." *Letters Patent sealed.*

COOKSON. HOMER. 16th February 1859.

427. RICHARD COOKSON, of Layton Hawes, near Blackpool, in the County of Lancaster, Gentleman, and CHARLES WILLIAM HOMER, at Castle Hill, near Northwich, in the County of Chester, Civil Engineer, for an invention for—"Improvements in machinery for making bricks, tiles, tubes and other articles of plastic materials, and in the mode of jointing drain pipes." *Letters Patent sealed.*

WRIGHT. 16th February 1859.

428. CHARLES EDWARD WRIGHT, of Nottingham, Commercial Traveller, for an invention for—"Improvements in means or apparatus employed in the nursing or treatment of infants." *Letters Patent sealed.*

PEARCE. 16th February 1859.

429. RICHARD JENNINGS STEVENSON PEARCE, of Fleet Street, in the City of London, Machinist, for an invention for—"Improvements in weighing and dynamic machines." *Letters Patent sealed.*

BOURJEAURD. 16th February 1859.

430. PIERRE MARIUS PHILIP BOURJEAURD, of Davies Street, in the County of Middlesex, late Surgeon in the French Navy, for an invention for—"An improved apparatus for supporting the womb." *Provisional protection only.*

NEWTON. 16th February 1859.

431. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mowing-machine or grass harvester."—*A communication from abroad by John Peter Adriance, of the United States of America.* *Letters Patent sealed.*

NEWTON. 16th February 1859.

432. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the construction of brushes."—*A commuication from abroad by Ira W. Shaler, of the United States of America.* *Letters Patent sealed.*

NEWTON. 16th February 1859.

433. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for making bricks."—*A communication from abroad by Mr. A. Milch of Berlin.* *Provisional protection only.*

HORSTMANN. 16th February 1859.

434. WILLIAM H. HORSTMANN, of the City of New York, in the County of New York, and the State of New York, U. S. A., for an invention for—"Telegraphic cables and the mode of constructing the same and laying them down." *Letters Patent sealed.*

RUSSELL. 16th February 1859.

435. JOHN JAMES RUSSELL, of Wednesbury, in the County of Stafford, for an invention for—"Improvements in machinery used for heating and welding the edges of the plates used in the manufacture of cylinders and other articles." *Letters Patent sealed.*

O'DOHERTY. 16th February 1859.

436. WILLIAM ARCHDALL O'DOHERTY, of 5, East Cheap, in the City of London, for an invention for—"An improvement in black lead pencils and pencil cases."—*A communication from abroad by Daniel Dunham Sweet, of Providence, Rhode Island, United States of America.* *Provisional protection only.*

SEGUIN. 16th February 1859.

437. JULES SEGUIN, Doctor of Medicine, of 4, Grand Rue de Gravelle à St. Maurice (Seine), France, for an invention for—"Improvements relating to the employment of moving power arising from the tides, and its application to manufacturing, agricultural and other purposes." *Letters Patent sealed.*

BENSON. 16th February 1859.

438. JOHN SOLMONS BENSON, of Birmingham, in the County of Warwick, Merchant, for an invention for—"A new or improved method of silvering glass."—*A communication from abroad by Mr. Morisson, of Hamburgh.* *Provisional protection only.*

BREEDEN. 16th February 1859.

439. JOSEPH BREEDEN, of Birmingham, in the County of Warwick, Manufacturer, for an invention for — "New or improved machinery for the manufacture of taps or stopcocks and fittings for gas, steam, and water pipes."
Letters Patent sealed.

EASON. 16th February 1859.

440. JOHN EASON, of Oxford Street, in the County of Middlesex, for an invention for—"Improvements in apparatus applicable to tanning, dyeing, and obtaining extracts from vegetable, animal, and mineral substances." *Letters Patent sealed.*

COOPER. 17th February 1859.

441. SAMUEL THOMAS COOPER, of Upper Clapton, Gentleman, for an invention for—"Improvements in the use and application of artificial light."
Letters Patent sealed and specification filed by order.

GRAY. 17th February 1859.

442. GEORGE GRAY, of the City of New York, in the United States of America for an invention for—"An improvement in screw wrenches."—*A communication by Joseph Hyde, of New York, aforesaid.* *Provisional protection NOT granted.*

SCOTT. 17th February 1859.

443. HENRY YOUNG DARRACOTT SCOTT, of Brompton Barracks, Chatham, in the County of Kent, Captain in the Royal Engineers, for an invention for—"An improvement in the manufacture of cement." *Letters Patent sealed.*

SAILLARD. 17th February 1859.

444. BENOIT SAILLARD, of Lamb's Conduit Street, in the County of Middlesex, Electrotyper, for an invention for—"An improved mode of obtaining printing plates from collodion pictures." *Provisional protection only.*

FRAISSINET. 17th February 1859.

445. PIERRE EDOUARD FRAISSINET, of Paris, in the Empire of France, Civil Engineer, for an invention for—"A new or improved structure of iron applicable for paving, flooring, bridges, gratings, girders, and other like purposes."
Letters Patent sealed.

CATTELL. 17th February 1859.

446. THOMAS CATTELL, of 30, Euston Square, in the County of Middlesex, M.D., for an invention for—"Improvements in treating and purifying gutta-percha."
Letters Patent sealed.

EMERSON. 17th February 1859.

447. FREDERICK WILLIAM EMERSON, of New Charlton, in the County of Kent, Mining Engineer and Metallurgical Chemist, for an invention for—"Improvements in the treatment of certain ores of lead, and obtaining from them valuable primary and secondary products." *Letters Patent sealed.*

FAY. 17th February 1859.

448. CHARLES FAY, of Manchester, in the County of Lancaster, Railway Carriage Builder, for an invention for—"Improvements in apparatus for working railway breaks." *Letters Patent sealed.*

JOHNSON. 17th February 1859.

449. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for propelling and steering vessels and other floating craft."—*A communication from John Eaton, residing at Belleville, in the Province of Upper Canada, Engineer.* *Letters Patent sealed.*

COLE. 18th February 1853.

450. JOHN JENKINS COLE, of No. 24, Essex Street, Strand, in the County of Middlesex, for an invention for—"Improvements in Venetian and other suspended blinds, and in the method of hanging and working them."
Provisional protection only.

GARTON. 18th February 1859.

451. CHARLES GARTON, of the City and County of Bristol, Brewer, for an invention for—"An improved method of treating cane sugar in order to render it fitter to be employed in brewing, distilling, and wine and vinegar making."
Letters Patent sealed.

SWAISLAND. 18th February 1859.

452. HENRY SWAISLAND, of 54, Great Sutton Street, Clerkenwell, in the County of Middlesex, Mathematical Instrument Maker, for an invention for—"Improvements in box sextants." *Provisional protection only.*

WALLIS. 18th February 1859.

453. GEORGE WALLIS, of Stretton, near Penkridge, in the County of Stafford, Artist, for an invention for—"A new or improved method of engraving applicable to the production of printing surfaces and the ornamentation of metallic and other surfaces." *Provisional protection only.*

KAMMERER. 18th February 1859.

454. GEORGE KAMMERER, of Lombard Street, in the City of London, Merchant, for an invention for—"Improved gearing for gins or horse mills applicable for grinding, winnowing, and other purposes requiring motive-power."—*A communication from abroad by Messrs. Lotz, of Pouancé (Maine et Loire), France.*
Provisional protection only.

CLARK. 18th February 1859.

455. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in emptying cesspools and in raising other fluid and semi-fluid matters."—*A communication from abroad by Pierre Théophile Joly, jun^r^, of Paris.* *Provisional protection only.*

CLARK. 18th February 1859.

456. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in pressure guages."—*A communication from abroad by Louis Droissart, Mechanician, of Paris.*
Letters Patent sealed.

JOHNSON. 18th February 1859.

457. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of textile fabrics and in the machinery or apparatus employed therein."—*A communication from Monsieur Amans de Chavagneur, residing at Paris, in the Empire of France.*
Provisional protection only.

DUJARDIN. 19th February 1859.

458. PIERRE ANTOINE JOSEPH DUJARDIN, of the Town of Lille, France, Physician, for an invention for—"Improvements in the printing apparatus of railway telegraphs." *Letters Patent sealed.*

DE NORMANDY. 19th February 1859.

459. ALPHONSE RENÉ LE MIRE DE NORMANDY, of 67, Judd Street, Brunswick Square, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in an apparatus for obtaining fresh water from salt water."
Letters Patent sealed.

EARLE. 19th February 1859.

460. THOMAS EARLE, of Clapham, in the County of Surrey, Contractor, for an invention for—"Improved apparatus for conveying signals to railway trains in motion." *Provisional protection only.*

CLAY. 19th February 1859.

461. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron and Steel Manufacturer, for an invention for—"Improvements in the manufacture of deck and other beams, and of angular and other bars of various forms."
Letters Patent sealed.

BASFORD. 19th February 1859.

462. WILLIAM BASFORD, of Burslem, in the County of Stafford, Brick and Tile Manufacturer, for an invention for—"Improvements in the method of and means for drying bricks and tiles preparatory to their being burnt, and also in the construction of kilns or ovens for burning such bricks, tiles, pipes, pottery, or earthenware, and in the mode of charging or placing these said articles therein to be burnt or fired, and also in certain appliances for regulating the heat therein." *Letters Patent sealed.*

WHEATCROFT. 19th February 1859.

463. SAMUEL WHEATCROFT, of Brudenell Place, New North Road, County of Middlesex, Engineer, for an invention for—"Improvements in the method of and the means for uniting lace to blond and other fabrics, and also in the apparatus used for manufacturing or converting the same into bonnet and cap fronts, rouches, and such like similar articles of millinery." *Letters Patent sealed.*

VASSEROT. 19th February 1859.

464. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved apparatus for manufacturing the strands of wire-ropes."—*A communication from Jean Baptiste Pieux-Aubert, residing at Clermont-Ferrand (Puy-de-Dôme), in the Empire of France.* *Letters Patent sealed.*

VASSEROT. 19th February 1859.

465. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved carding-machine."—*A communication from Victor Madeline-Morin, residing at Athis, Orne, in the Empire of France.*
Provisional protection only.

BROOMAN. 19th February 1859.

466. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in machinery for doubling threads."—*A communication from Adolphe Bouez, residing at Paris.*
Provisional protection only.

OUWELANT. 19th February 1859.

467. FERDINAND PIERRE JEAN VAN DEN OUWELANT, of Paris, France, Gentleman, for an invention for—"Improvements in apparatuses to be applied to fire-places for obtaining a more complete combustion of the fuel employed therein." *Letters Patent sealed.*

PAUL. 21st February 1859.

468. GEORGE PAUL, of Glasgow, in the County of Lanark, North Britain, Mechanic, for an invention for—"Improvements in spindles and flyers." *Letters Patent sealed.*

BLAKE. 21st February 1859.

469. OBED BLAKE, of Blackwall, in the County of Middlesex, for an invention for—"Improved machinery or apparatus used in the manufacture of glass." *Letters Patent sealed.*

Mc CULLOCH. 21st February 1859.

470. GILBERT Mc CULLOCH, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for spinning, doubling, and throwing silk, and doubling other fibrous materials. *Provisional protection only.*

WILSON. 21st February 1859.

471. THOMAS WILSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in the manufacture and construction of ordnance." *Letters Patent sealed.*

BELPAIRE. 21st February 1859.

472. ALFRED BELPAIRE, Engineer, of the City of Brussels, in the Kingdom of Belgium, for an invention for—"Improvement in the reversing gear of locomotive and other steamengines." *Provisional protection only.*

HUMPHREY. 21st February 1859.

473. GEORGE HUMPHREY, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in meters for measuring fluids and gases." *Provisional protection only.*

SPENCE. 21st February 1859.

474. PETER SPENCE, of Pendleton, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of alum, and in the mode of and apparatus for condensing or destroying gases arising therefrom." *Letters Patent sealed.*

JOBSON. 21st February 1859.

475. ROBERT JOBSON, of Wordsley, in the County of Stafford, Iron Founder, for an invention for—"Improvements in supplying water or other fluid to axletree boxes and other journal bearings to lubricate the same." *Letters Patent sealed.*

TAPERELL. 21st February 1859.

476. ALFRED TAPERELL, of 37, Moorgate Street, in the City of London, for an invention for—"Improvements in compositions or compounds used when cleaning glass." *Provisional protection only.*

JOHNSON. STABLEFORD. 21st February 1859.

477. RICHARD WILLIAM JOHNSON, of Oldbury, in the County of Worcester, Railway Carriage Builder, and WILLIAM STABLEFORD, of the same place, Manager, for an invention for—"Improvements in axle-boxes." *Letters Patent sealed.*

SCHLOSS. 21st February 1859.

478. JOSEPH SCHLOSS, of Cannon Street, in the City of London, Manufacturer, for an invention for—"An improvement in locks or clasps for porte-monnaies, pocket books, bags, and other like purposes."—*A communication from Ve Henry Schloss & Frère, residing in Paris.* *Letters Patent sealed.*

SMITH. 22nd February 1859.

479. THOMAS SMITH, of Chatteris, in the County of Cambridge, Watchmaker, for an invention for—"Floating wheels for driving machinery." *Provisional protection only.*

SOELMAN. 22nd February 1859.

480. WILLIAM SOELMAN, of 3, Bennett Street, (W.), in the County of Middlesex, for an invention for—"Improvements in the construction of propellers." *Provisional protection only.*

GRIMOND. 22nd February 1859.

481. JOSEPH GRIMOND, of the City of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the treatment and preparation of jute and other fibrous materials, and in machinery or apparatus employed therein." *Letters Patent sealed.*

CURTIS. 22nd February 1859.

482. JAMES CURTIS, of Drury Lane, in the County of Middlesex, for an invention for—"The manufacture of military sash, net, and machinery to be employed therein." *Provisional protection only.*

CLARK.
22nd February 1859.

483. WILLIAM STETTINIUS CLARK, of No. 76, Cannon Street West, in the City of London, and of 35, Boulevard Bonne Nouvelle, Paris, in the Empire of France, for an invention for—"Improvements in the formation of cast iron rails for city railways, and also in the method of uniting the ends of two adjacent rails for railway use."—*A communication from Sidney A. Beers, Civil Engineer, now residing at Brooklyn, New York.* *Complete specification; Protection for SIX months only.*

HINE.
22nd February 1859.

484. JOSEPH HINE, of Clerkenwell, in the County of Middlesex, Fancy Cabinet Manufacturer, for an invention for—"An improved book slide."
Provisional protection only.

LUND.
22nd February 1859.

485. EDWARD LUND, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in the manufacture of fabrics or textures to be used in the construction of umbrellas and parasols." *Letters Patent sealed.*

BROOMAN.
22nd February 1859.

486. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A method of fixing tannin upon textile fibres, and the employment thereof in dying black and dark colors."—*A communication from M. Verguin, residing at Lyon, France.* *Letters Patent sealed.*

HARDING.
22nd February 1859.

487. THOMAS RICHARDS HARDING, of Leeds, in the County of York, Hackle Pin Manufacturer, for an invention for—"Improvements in the manufacture of card surfaces to be used in preparing fibrous materials." *Provisional protection only.*

GOSSAGE.
22nd February 1859.

488. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, for an invention for—"Improvements in the utilization of alkali-waste." *Letters Patent sealed.*

SMETHURST.
23rd February 1859.

489. AUGUSTUS WILLIAM SMETHURST, of Chorley, in the County of Lancaster, Cotton Spinner and Manufacturer, for an invention for—"Improvements in machinery for driving looms for weaving." *Letters Patent sealed.*

RIDGE.
23rd February 1859.

490. SAMUEL RIDGE, of Hyde, in the County of Chester, Millwright, for an invention for—"Improvements in coupling or making the joints of pipes and other articles." *Letters Patent sealed.*

ASHTON.
3rd February 1859.

491. WILLIAM ASHTON, of Heaton Norris, in the County of Lancaster, Manager, for an invention for—"Improvements in gas regulators." *Letters Patent sealed.*

DAVIES.
3rd February 1859.

492. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improved apparatus applicable to the evaporation of saccharine liquids and for the concentration of heat for other purposes."—*A communication from Augustus Jouan, residing at San Francisco, California.*
Provisional protection only.

SCOTT.
3rd February 1859.

493. URIAH SCOTT, of Camden Town, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in carriages and various parts of the same, which parts may be applied to vehicles of any description." *Letters Patent sealed.*

SHARP.
3rd February 1859.

494. WILLIAM SHARP, of Bingley, in the County of York, Worsted Spinner and Manufacturer, for an invention for—"Certain improvements in machinery for spinning and twisting worsted, cotton, silk, and other fibrous materials."
Provisional protection only.

SAMUELS.
3rd February 1859.

495. SAMUEL RODGERS SAMUELS, of Nottingham, for an invention for—"Improvements in twist lace machines." *Letters Patent sealed.*

RUSSELL.
3rd February 1859.

496. SAMUEL RUSSELL, of No. 12, Sheaf Gardens, Sheffield, in the County of York, Britannia Metal Manufacturer, for an invention for—"An improvement in the manufacture of handles for tea and coffee pots, jugs, kettles, knives, daggers, and forks, or any other description of article to which handles are applied."
Letters Patent sealed.

TURNBULL.
3rd February 1859.

497. GEORGE TURNBULL, of Calcutta, in the Province of Bengal, in the East Indies, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

BARLOW.
4th February 1859.

498. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Improvements in apparatus for condensing steam."—*A communication from abroad by François Daina, of Bergamo, in the Empire of Austria.*
Letters Patent sealed.

ROBINSON. 24th February 1859.

499. JOHN ROBINSON, of Lower House, near Burnley, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery and apparatus applicable to machines for spinning and doubling." *Letters Patent sealed; no specification filed.*

MUSHET. 24th February 1859.

500. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"A new metallic compound or alloy. *Letters Patent sealed.*

MUSHET. 24th February 1859.

501. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement in the manufacture of cast steel." *Letters Patent sealed.*

HOLMS. 24th February 1859.

502. JAMES HOLMS, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for propelling vessels, ships, and boats." *Provisional protection only.*

CROSLAND. 24th February 1859.

503. JOSEPH CROSLAND, of Crosland Moor, Huddersfield, in the County of York, Manufacturer, for an invention for—"Improvements in looms for weaving textile fabrics." *Letters Patent sealed.*

LANÇON. 24th February 1859.

504. ADOLPHE LANÇON, Jun., Watch Manufacturer, at Besançon, Departement du Doubs, Empire of France, for an invention for—"A new system of watches." *Letters Patent sealed.*

WAGNER. 24th February 1859.

505. JEAN HENRI GUILLAUME DANIEL WAGNER, of Paris, in the Empire of France, Manufacturer, for an invention for—"Apparatus for cleaning water and removing all matters in suspension and dissolution contained in it, water intended to feed generators of all sorts (applicable also to other purposes), which besides previous to its getting into the generators is heated to the highest degree without almost any expense." *Letters Patent sealed.*

DALE. 24th February 1859.

506. JOHN DALE, of Cornbrook, in Manchester, and County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in concentrating caustic alkalis, and in applying a product therefrom to the purpose of obtaining motive-power and to other purposes." *Letters Patent sealed.*

PRICE. HAWKINS. 24th February 1859.

507. ENOCK PRICE, of Doncaster, in the County of York, Railway Contractor, and EDMUND HAWKINS, of the same place, Builder and Contractor, for an invention for—"Improvements in the mode of forming fish plates, and in the method of fixing or attaching them to the joints of rails on railways." *Letters Patent sealed.*

KEILY. 24th February 1859.

508. ALFRED CORNELIUS KEILY, of Silchester Road, Notting Hill, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for drawing-off fluids." *Provisional protection only.*

REID. TONGE. 25th February 1859.

509. ALEXANDER REID, of the City of Manchester, Merchant, and RICHARD TONGE, of the same place, Manufacturer, for an invention for—"Certain improvements in weaving and in the machinery employed therein." *Letters Patent sealed.*

REID. TONGE. 25th February 1859.

510. ALEXANDER REID, of the City of Manchester, Merchant, and RICHARD TONGE, of the same place, Manufacturer, for an invention for—"Certain improvements in or applicable to looms for weaving." *Provisional protection only.*

HINDE. HINDE. 25th February 1859.

511. THOMAS CALLENDER HINDE, of Dudley, in the County of Worcester, Iron Merchant, and GEORGE JAMES HINDE, of Wolverhampton, in the County of Stafford, Merchant, for an invention for—"Improvements in coating iron with copper or alloys of copper." *Letters Patent sealed.*

SIEMENS. 25th February 1859.

512. CHARLES WILLIAM SIEMENS, of John Street, Adelphi, in the County of Middlesex, for an invention for—"Improvements in electric telegraphs and apparatus, and in supports for electric telegraphic line wires."—*Partly a communication from Werner Siemens, residing at Berlin, in Prussia.* *Letters Patent sealed.*

M^{c}NAUGHT. 25th February 1859.

513. WILLIAM M^{c}NAUGHT, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines particularly applicable to compound steam-engines." *Letters Patent sealed.*

FIELDEN. FIELDEN. 25th February 1859.

514. ROBERT FIELDEN, jun^{r}, of Walsden, in the County of Lancaster, Picker Manufacturer, and THOMAS FIELDEN, of the same place, also Picker Manufacturer, for an invention for—"An improvement or improvements in the manufacture of pickers to be used in looms for weaving, and also in the machinery or apparatus to be employed in the manufacture of the same." *Letters Patent sealed.*

REDDIE.
25th February 1859.

515. JAMES REDDIE, of Colehill Lodge, Fulham, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of propelling and steering vessels." *Provisional protection only.*

PEOVER.
25th February 1859.

516. GEORGE PEOVER, of Wilmington Square, Clerkenwell, in the County of Middlesex, Mathematical Instrument Maker, for an invention for—"An improved optical instrument, being an improvement upon the kaleidoscope." *Provisional protection only.*

CLARK.
25th February 1859.

517. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improved apparatus for spinning, twisting, doubling, and drawing fibrous materials."—*A communication from abroad by Messrs. Leroux, Brothers, of Tracy le Mont (Oise), France.* *Provisional protection only.*

WEEKES.
26th February 1859.

518. FREDERICK WEEKES, of Bolney, in the County of Sussex, for an invention for—"The treatment of certain alcoholic products." *Letters Patent sealed.*

EARNSHAW.
26th February 1859.

519. GEORGE EARNSHAW, of Horbury, near Wakefield, in the County of York, Millwright, for an invention for—"The treatment of woollen and other rags and waste of fibrous substances so as to obtain useful products therefrom." *Provisional protection only.*

LEE.
26th February 1859.

520. JAMES LEE, of Saint Helen's, in the County of Lancaster, Grocer, for an invention for—"Certain improvements in ploughs." *Letters Patent sealed.*

HINE.
26th February 1859.

521. JOSEPH HINE, of Clerkenwell, in the County of Middlesex, Fancy Cabinet Manufacturer, for an invention for—"An improved joint for cabinet making, carpentry, and other constructive purposes." *Letters Patent sealed and specification filed by order.*

BURGESS.
26th February 1859.

522. WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the City of London, Agricultural Implement Makers, for an invention for—"An improvement in reaping and mowing machines." *Letters Patent sealed.*

GATWOOD.
28th February 1859.

523. EDWARD GATWOOD, of Great George Street, Westminster, in the County of Middlesex, Carriage Builder, for an invention for—"Improvements in buffing, traction and bearing springs applicable to railway carriages and locomotive engines." *Letters Patent sealed.*

BRIGNOLES.
28th February 1859.

524. FRANÇOIS BRIGNOLES, residing at No. 3, Duke Street, Adelphi, London, County of Middlesex, for an invention for—"The disenfection and rectification of alcohols by the separation of the essential and other oils from the alcohol."—*A communication from Mr. St. Cyr Prieur, now residing in Avignon, Town, France.* *Complete specification; Letters Patent sealed.*

MARTIN.
CRICHTON.
28th February 1859.

525. ALEXANDER MARTIN, Merchant, & ALEXANDER CRICHTON, Mechanic, both residing in Pollokshaws, in the County of Renfrew, for an invention for—"Improvements in weaving and woven goods." *Letters Patent sealed.*

HOWDEN.
28th February 1859.

526. JAMES HOWDEN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting, shaping, punching, and compressing metals." *Letters Patent sealed.*

LEIGH.
28th February 1859.

527. JOHN LEIGH, of the City of Manchester, in the County of Lancaster, Surgeon, for an invention for—"Improvements in the purification of coal gas." *Letters Patent sealed.*

HORNER.
28th February 1859.

528. GEORGE HORNER, of Falls Road, Belfast, in the County of Antrim, Ireland, Machinist, for an invention for—"Improvements in hackling flax and other fibrous materials, and in machinery for the same." *Letters Patent sealed.*

JOHNSON.
28th February 1859.

529. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for stopping horses."—*A communication from Madame Achet, residing at Paris, in the Empire of France.* *Letters Patent sealed.*

JOHNSON.
28th February 1859.

530. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for taking soundings, applicable also to the throwing of life lines."—*A communication from William P. Trowbridge, residing at Washington, Columbia, in the United States of America.*
Letters Patent sealed.

HALL.
HALL.
28th February 1859.

531. COLLINSON HALL, and COLLINSON HALL, the younger, of Navestock, in the County of Essex, Agriculturalists, for an invention for—"Improvements in steam agricultural machinery." *Letters Patent sealed.*

TURNER.
28th February 1859.

532. ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics."
Provisional protection only.

NEWTON.
28th February 1859.

533. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for "Improvements in constructing and working condensing engines."—*A communication from abroad by John Sutton, of the United States of America.*
Provisional protection only.

HODSON.
28th February 1859.

534. WILLIAM HODSON, of Kingston Square, Hull, for an invention for—"Improvements in rotatory engines." *Provisional protection only.*

BROWN.
MILNE.
28th February 1859.

535. RICHARD BROWN, of Earith, near St. Ives, Huntingdonshire, and WILLIAM MILNE, of Bushey, Herts, for an invention for—"Improvements in fire-arms."
Provisional protection only.

HUGHES.
1st March 1859.

536. EDWARD JOSEPH HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, for an invention for—"Improvements in preserving animal food, poultry, game, fish, fruit, and other similar substances."—*A communication from abroad by Edouard Gorges, of Paris.* *Letters Patent sealed.*

CLOAKE.
1st March 1859.

537. THOMAS CLOAKE, of No. 6, Saville Row, Walworth, in the County of Surrey, Watch Maker, for an invention for—"Stopping of the bodies and wheels of railway and other carriages." *Letters Patent sealed.*

HOLROYD.
1st March 1859.

538. JAMES HOLROYD, of Leeds, in the County of York, Cloth Finisher, for an invention for—"An improvement in finishing woollen cloths and cloths made from a combination of wool and other materials." *Provisional protection only.*

MOULE.
1st March 1859.

539. The Reverend HENRY MOULE, Clerk, Master of Arts, of Fordington, in the County of Dorset, for an invention for—"Improvements in apparatus applicable to the evaporation of sewage or other waters, and for affording heat for other uses."
Letters Patent sealed.

WETHERILT.
1st March 1859.

540. JAMES WETHERILT, of Chapel Street West, May Fair, in the County of Middlesex, for an invention for—"Certain improvements in locks."
Provisional protection only.

EDWARDS.
1st March 1859.

541. JOHN EDWARDS, of Fenton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in stacking or holding biscuit, earthen, china, and glossed ware for firing." *Letters Patent sealed.*

RIVERS.
1st March 1859.

542. GEORGE PITT RIVERS BARON RIVERS, of Rushmore Lodge, in the County of Wilts, for an invention for—"An improved implement for breaking up and preparing land." *Provisional protection only.*

TEMPLEMAN.
1st March 1859.

543. JAMES TEMPLEMAN, of Glasgow, in the County of Lanark, North Britain, Artificial Fuel Manufacturer, for an invention for—"Improvements in the manufacture or production of artificial fuel." *Letters Patent sealed.*

PILE.
1st March 1859.

544. JOHN PILE, of West Hartlepool, in the County of Durham, Ship Builder, for an invention for—"Improvements in the construction of floating docks."
Letters Patent sealed.

LICHTENSTADT.
1st March 1859.

545. DAVID LICHTENSTADT, of No. 1, Henry Cottages, Park Road, Peckham, in the County of Surrey, Chemist, for an invention for—"Converting certain vegetable substances into fibrous material for the manufacture of paper, textile and other fabrics." *Letters Patent sealed.*

CARTER. 2nd March 1859.

546. JOHN THOMSON CARTER, of Belfast, in the County of Antrim, Flax, Spinner, for an invention for—"Improvements in machinery for crushing, bruising, and preparing flax, hemp, and other fibrous materials requiring such treatment." *Letters Patent sealed; specification filed by order.*

CURRIE. 2nd March 1859.

547. PETER CURRIE, General Brass-Founder, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in spindles for locks, latches, and other door-fastenings." *Letters Patent sealed.*

VALDA. 2nd March 1859.

548. JOHAN VALDA, of London, in the County of Middlesex, for an invention for—"Improvements in studs and other like fastenings for dresses, belts, or other purposes. *Provisional protection only.*

ADAMS. LAW. INGLIS. 2nd March 1859.

549. JAMES MAXWELL ADAMS, Gentleman, and DAVID LAW, and JOHN INGLIS, Ironfounders, all of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in fireplaces, grates, ranges, and stoves." *Provisional protection only.*

COLLYER. 2nd March 1859.

550. ROBERT HANHAM COLLYER, of Alpha Road, in the County of Middlesex, Doctor of Medicine and Civil Engineer, for an invention for—"A process of preparing materials for the manufacture of paper, and a machine employed therein, which machine is applicable for crushing, grinding, bruising, and reducing various substances." *Letters Patent sealed.*

DEARLOVE. 2nd March 1859.

551. WILLIAM FRANCIS DEARLOVE, of No. 10, Dartmouth Street, in the City of Westminster, for an invention for—"An improved chopping machine." *Provisional protection only.*

JONES. 2nd March 1859.

552. FREDERICK JOHN JONES, of Aldermanbury, in the City of London, Manufacturer, for an invention for—"An improvement in buckles and clasps." *Provisional protection only.*

HARKER. FIELD. 2nd March 1859.

553. JOHN WILLIAM HARKER, of No. 24, Upper Barnsbury Street, Islington, and JOHN KINGSFORD FIELD, of Upper Marsh, Lambeth, for an invention for—"Improvements in coating the bottoms of iron and other ships and vessels."—*A communication from abroad by John Cook Harker and Frederick Field, both of Chili.* *Letters Patent sealed.*

ROCHE. 2nd March 1859.

554. ETIENNE ROCHE, of Marseille, Town in the French Empire, Manufacturer, for an invention for—"Improvements in the manufacture of paper suitable for forming cigarettes and for other purposes, and also improvements in the manufacture of cigars." *Letters Patent sealed.*

HILL. 2nd March 1859.

555. CALEB HILL, of Cheddar, in the County of Somerset, Stay Manufacturer, for an invention for—"An improved construction of stay fastening." *Provisional protection only.*

NEWTON. 2nd March 1859.

556. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of barometers or instruments to indicate pressure."—*A communication from Mr. Alfred Nobel, of Paris, a Foreigner residing abroad.* *Letters Patent sealed.*

JOHNSON. 2nd March 1859.

557. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of grease boxes and bearings generally."—*A communication from Joseph Vallot, residing at Paris, in the Empire of France, Engineer.* *Letters Patent sealed.*

KERSHAW. 2nd March 1859.

558. JOSEPH KERSHAW, of Allerton, near Bradford, in the County of York, Overlooker, for an invention for—"Improvements in means or apparatus employed in weaving." *Letters Patent sealed.*

NEWCOMB. LOVELL. 2nd March 1859.

559. JAMES NEWCOMB, of the City of Bristol, Engineer, and JOSEPH GWYER LOVELL, of the City of Bristol, Merchant, for an invention for—"Improvements in obtaining and applying motive-power, especially adapted amongst other purposes to the propelling of ships and vessels." *Letters Patent sealed.*

BROWN. 2nd March 1859.

560. HENRY BROWN, of the firm of Henry Brown & Company, Woollen Manufacturers, of Galashiels, in the County of Selkirk, Scotland, for an invention for—"Improvements in machinery for cutting and finishing the surfaces of woollen and other fabrics." *Letters Patent sealed.*

BROWN. 2nd March 1859.	**561.** WILLIAM BROWN, of 4 and 5, Edgar Place, Mile End, in the County of Middlesex, Pipe Maker, for an invention for—"Improvements in the manufacture of pipe mounts or stems, cigar tubes, and similar articles." *Provisional protection only.*
KOHN. 3rd March 1859.	**562.** HERMANN KOHN, of Berlin, in the Kingdom of Prussia, now residing at 5, North Place, Gray's Inn Road, in the County of Middlesex, Merchant Tailor, for an invention for—"Improvements in articles of wearing-apparel called coats." *Provisional protection only.*
HARRISON. 3rd March 1859.	**563.** JOHN HARRISON, of Bermondsey, Southwark, in the County of Surrey, Builder, for an invention for—"An improvement or improvements in the construction of rotating window sashes. *Provisional protection only.*
WILSON. 3rd March 1859.	**564.** THOMAS WILSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in breech loading fire-arms." *Provisional protection only.*
HALE. 3rd March 1859.	**565.** ALBERT W. HALE, of New Britain, State of Connecticut, United States of America, for an invention for—"A new and improved machine for cutting or mincing meat, vegetables, &c." *Provisional protection only.*
DOUGALL. 3rd March 1859.	**566.** JAMES DALZIEL DOUGALL, of Glasgow, in the County of Lanark, North Britain, Gun Maker, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*
JACKSON. 3rd March 1859.	**567.** WILLIAM JACKSON, of Colne, in the County of Lancaster, Shuttle Tongue Maker, for an invention for—"Improvements in shuttles for looms." *Provisional protection only.*
SCORE. 3rd March 1859.	**568.** WILLIAM SCORE, of 9, Osborne Terrace, Clapham Road, in the County of Surrey, Chemist, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*
LEONARD. 3rd March 1859.	**569.** HORATIO LEONARD, of the State of Massachusetts, of the United States of America, for an invention for—"An improvement in the manufacture of paraffine candles." *Complete specification; Letters Patent sealed.*
TUCKER. 3rd March 1859.	**570.** WILLIAM TUCKER, of the State of Massachusetts, of the United States of America, for an invention for—"An improvement in bit stocks or auger handles." *Complete specification; Letters Patent sealed.*
COOK. 3rd March 1859.	**571.** THOMAS COOK, of Stowmarket, in the County of Suffolk, Carpenter and Joiner, for an invention for—"An apparatus for raising and lowering coffins and bodies, either for burial or disinterment." *Provisional protection only.*
MITCALFE. 3rd March 1859.	**572.** WILLIAM MITCALFE, of the Coal Exchange, London, Gentleman, for an invention for—"Improvements in discharging cargoes, and in raising and lowering bodies." *Provisional protection only.*
DENNET. 4th March 1859.	**573.** CHARLES FREDERICK DENNET, of Pall-Mall, Gentleman, for an invention for—"Improvements in bayonets." *Letters Patent sealed.*
RIDER. 4th March 1859.	**574.** MARK RIDER, of Todmorden, in the County of York, Mechanic, for an invention for—"Improvements in or applicable to machines for preparing, spinning, and doubling cotton and other fibrous materials." *Provisional protection only.*
COWBAN. ANDREWS. 4th March 1859.	**575.** JAMES COWBAN, and ELIAS ANDREWS, of Burnley, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for spinning fibrous materials." *Letters Patent sealed.*
BROOMAN. 4th March 1859.	**576.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improvement in boiler stays."—*A communication from Jean Perrier, residing at Nimes, France.* *Letters Patent sealed.*
MEAD. 4th March 1859.	**577.** CHARLES ROPER MEAD, of 176, Great Dover Street, in the Borough of Southwark, Gas Engineer, for an invention for—"Improvements in water gas-meters." *Letters Patent sealed.*
BAILES. BAILES. 5th March 1859.	**578.** WILLIAM BAILES, and JAMES BAILES, of 434, Oxford Street, in the Parish of Westminster, in the County of Middlesex, for an invention for—"An improved ships' berth for prevention of sea sickness, composed of wood and metal." *Provisional protection only.*

DUNLOP. 5th March 1859. — 579. JOHN MACMILLAN DUNLOP, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for cleaning fibrous materials." *Letters Patent sealed.*

LEIGH. 5th March 1859. — 580. JOHN LEIGH, of the City of Manchester, in the County of Lancaster, Surgeon, for an invention for—"Improvements in the purification of coal gas." *Letters Patent sealed.*

FRASER. 5th March 1859. — 581. JOHN FRASER, of the Town and County of Banff, North Britain, Manager of the Banff Iron Foundry, for an invention for—"Improvements in ploughs." *Letters Patent sealed.*

PARKER. 5th March 1859. — 582. FREDERICK WILLIAM PARKER, of Sheffield, in the County of York, Saw Maker, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

VIGERS. 5th March 1859. — 583. EDWARD VIGERS, of Paddington, Gentleman, for an invention for—"Improvements in the construction of ships and other vessels." *Provisional protection only.*

SAVAGE. 5th March 1859. — 584. WILLIAM PEACOCK SAVAGE, of Roxham, Downham Market, in the County of Norfolk, for an invention for—"An improved machine for excavating, raising, and depositing soil." *Letters Patent sealed.*

VERDEIL. MICHEL. 5th March 1859. — 585. FRANÇOIS VERDEIL, Medical Doctor, of No. 30, Rue St. Sulpice, in the City of Paris, and EDMOND MICHEL, Chemist, of No. 4, Quai Impérial, Puteaux, Seine, for an invention for—"Improvements in treating madder." *Letters Patent sealed.*

LEACH. 5th March 1859. — 586. GEORGE LEACH, of Leeds, in the County of York, Yarn Spinner and Cloth Manufacturer, for an invention for—"Improved machinery for reeling and leashing yarn or thread." *Letters Patent sealed.*

MORTON. 5th March 1859. — 587. FRANCIS MORTON, of James Street, Liverpool, in the County of Lancaster, Engineer, for an invention for—"An improvement in the construction of strained fences." *Provisional protection only.*

LEAKE. SYKES. 5th March 1859. — 588. RICHARD LEAKE, and MATTHEW SYKES, both of Barnsley, in the County of York, for an invention for—"Improvements in furnaces for consuming smoke and generating heat, parts of which improvements are applicable to furnaces generally." *Letters Patent sealed.*

PATRICK. 7th March 1859. — 589. HUGH WILLIAM PATRICK, of No. 4, Mill Hill Terrace, Acton, in the County of Middlesex, for an invention for—"An improvement or improvements in an apparatus for chemical and dental laboratories or other manufacturing or experimental uses, which he proposes calling a Paragon Laboratory forge." *Provisional protection only.*

PROUDFOOT. 7th March 1859. — 590. DUNCAN PROUDFOOT, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in turkey red dyeing." *Provisional protection only*

CABANY. 7th March 1859. — 591. ARMAND CABANY, of Anzin, Department of the "Nord," in the Empire of France, Engineer, for an invention for—"A new system of quoins (wedges) for railways." *Provisional protection only.*

PALMER. 7th March 1859. — 592. WILLIAM PALMER, of Long Eaton, in the County of Derby, Station Master, for an invention for—"An improved railway carriage break and coupling apparatus connected therewith." *Letters Patent sealed.*

AYCKBOURN. 7th March 1859. — 593. FREDERICK AYCKBOURN, of 27, Henry Street, Vauxhall Gardens, Gentleman, for an invention for—"Laminating india-rubber cloths with paper sheets." *Provisional protection only.*

GOSSAGE. 7th March 1859. — 594. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the treatment of certain ores of copper for the extraction of metals therefrom." *Letters Patent sealed.*

ASPINALL. 7th March 1859. — 595. JOHN ASPINALL, of Great Tower Street, in the City of London, Civil Engineer, for an invention for—"Improvements in evaporating in vacuo." *Letters Patent sealed.*

AIMONT. 7th March 1859.

598. PIERRE ERNEST AIMONT, of Paris, in the French Empire, Civil Engineer, for an invention for—"Improvements in the construction of waggons and other carriages for railways and ordinary roads, and of apparatuses connected therewith." *Letters Patent sealed.*

ORR. 7th March 1859.

597. JOHN ORR, of 31, South Albion Street, Glasgow, in the employ of Messrs. Laird and Thomson, of Glasgow aforesaid, for an invention for—"Improvements in weaving ornamental fabrics." *Provisional protection only.*

CLARKE. 7th March 1859.

598. JOHN PRETTY CLARKE, of King's Street Mills, Leicester, for an invention for—"Improvements in the manufacture of reels for the winding on cotton, linen, thread, silk, or other fibrous materials." *Letters Patent sealed.*

JULLION. PIRIE. 7th March 1859.

599. JOHN LOUIS JULLION and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, for an invention for—"The manufacture of gelatine." *Letters Patent sealed.*

KING. WILCOCK. 8th March 1859.

600. JAMES KING, of Moss Mill, near Rochdale, in the County of Lancaster, Cotton Spinner and Manufacturer, and ALFRED WILCOCK, of the same place, Mechanic, for an invention for—"Improvements in certain parts of machines used in preparing, spinning and doubling cotton and other fibrous materials." *Provisional protection only.*

BOOTH. BOOTH. 8th March 1859.

601. ADAM BOOTH the elder and ADAM BOOTH the younger, of the City of Manchester, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in machinery or apparatus for making or manufacturing tags for laces." *Letters Patent sealed.*

HALLILAY. 8th March 1859.

602. WILLIAM HALLILAY, of Wakefield, in the County of York, Gentleman, for an invention for—"Improvements in apparatus for preventing smoke and economizing fuel." *Provisional protection only.*

TWIGG. 8th March 1859.

603. GEORGE TWIGG, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improved fusee-igniter for the use of smokers." *Letters Patent sealed.*

MILLS. 8th March 1859.

604. CHARLES MILLS, of High Street, Camden Town, for an invention for—"Improvements in the action of pianofortes." *Letters Patent sealed.*

RYDER. 8th March 1859.

605. JOHN NORTHCOTE RYDER, of Bexley Heath, in the County of Kent, for an invention for—"Improvements in preserving fruits and in apparatus used for such purposes." *Provisional protection only.*

DEANE. 8th March 1859.

606. EDWARD DEANE, of No. 1, Arthur Street East, London Bridge, in the City of London, Gas Engineer, for an invention for—"Improvements in apparatus for the transmission of gas and other fluids." *Provisional protection only.*

CLARK. 8th March 1859.

607. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in submarine telegraph cables."—*A communication from abroad by Auguste Hubert Stanislas Treve, of Paris, Officer of the Imperial Navy.* *Provisional protection only.*

BELLING. 8th March 1859.

608. BENNETT MITCHELL BELLING, of 55, Queen's Road, Bayswater, Dentist, for an invention for—"Improved apparatus for hardening india-rubber for the bases of teeth." *Provisional protection only.*

PILBROW. 9th March 1859.

609. JAMES PILBROW, of Pilbrow, of Tottenham, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in or a new method or methods of obtaining and applying motive-power, a modification of which is also applicable for pumping or forcing liquids, gases and fluids, as also for measuring liquids, gases and fluids." *Provisional protection only.*

WILLIAMS. 9th March 1859.

610. JOHN ALLIN WILLIAMS, of Baydon, in the County of Wilts, Farmer, for an invention for—"Improvements in machinery or apparatus for cultivating land by steam power." *Letters Patent sealed.*

ARMSTRONG. 9th March 1859.

611. Sir WILLIAM GEORGE ARMSTRONG, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in rifled ordnance and its projectiles." *Provisional protection only.*

NICHOLSON. 9th March 1859.

612. JOHN ROBINSON NICHOLSON, of Redditch, in the County of Worcester, Doctor of Medicine, for an invention for—"New or improved machinery to be used in the manufacture of needles, a part or parts of which said machinery may also be used for pointing pins and other like articles." *Letters Patent sealed.*

ERWOOD. SKERTCHLY. 9th March 1859.

613. JOHN ERWOOD, of 132, Goswell Street, Clerkenwell, in the County of Middlesex, Paper Stainer, & JOSEPH SKERTCHLY, of Ashby-de-la-Zouch, in the County of Leicester, Engineer, for an invention for—"Improvements in the manufacture of glass, sand and emery papers and cloths, and other similar articles used for like purposes." *Letters Patent sealed.*

PEARCE. 9th March 1859.

614. GEORGE COPE PEARCE, of Cyfarthfa, in the County of Glamorgan, Engineer, for an invention for—"An improvement in cornets, trumpets, trombones, and other like wind instruments." *Provisional protection only.*

RUSSELL. 9th March 1859.

615. JOHN SCOTT RUSSELL, of Great George Street, Westminster, for an invention for—"Improvements in building ships and other vessels." *Letters Patent sealed.*

COOKE. 9th March 1859.

616. JOHN COOKE, of Cheltenham, in the County of Gloucester, for an invention for—"Improvements in apparatus for giving signals on railways and vessels and other such like uses." *Provisional protection only.*

NEWTON. 9th March 1859.

617. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for rolling horse shoe iron."—*A communication from William Watkin Lewis, residing in the United States of America.* *Letters Patent sealed.*

NEWTON. 9th March 1859.

618. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in billiard tables."—*A communication from abroad by Abraham Bassford, of New York.* *Letters Patent sealed.*

FISHER. 9th March 1859.

619. HENRY FISHER, of Birkenhead, in the County of Chester, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting thin sheets of metal into strips, and for tempering sheets or strips of metal." *Provisional protection only.*

MARTIN. 10th March 1859.

620. JOHN COWDERY MARTIN, of High Street, Barnes, in the County of Surrey, Naval Architect, for an Invention for—"An improvement in the manufacture of cannon and small fire-arms, and of projectiles to be used with the same." *Provisional protection only.*

YUILL. 10th March 1859.

621. JAMES YUILL, of Glasgow, in the County of Lanark, North Britain, Saddlers' Ironmonger, for an invention for—"Improvements in saddletrees." *Letters Patent sealed.*

WOODWARD. 10th March 1859.

622. RICHARD FREDERICK WOODWARD, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of certain kinds of scale beams and fittings used therewith." *Provisional protection only.*

LODGE. 10th March 1859.

623. HENRY LODGE, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improved means of protecting ships, batteries and other constructions or buildings, from the effects of projectiles of various kinds." *Letters Patent sealed.*

BURTON. 11th March 1859.

624. JAMES HENRY BURTON, of Enfield Lock, in the County of Middlesex, England, for an invention for—"An improvement in breech loading fire-arms." *Provisional protection only.*

HADDAN. 11th March 1859.

625. JOHN COOPE HADDAN, of No. 4, Cannon Row, Westminster, Civil Engineer, for an invention for—"Improvements in casting mortars and cannon." *Provisional protection only.*

HELLARD. 11th March 1859.

626. ROBERT HELLARD, Ironmonger, Taunton, Somerset, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*

WHEATCROFT. 11th March 1859.

627. SAMUEL WHEATCROFT, of Brudenell Place, New North Road, County of Middlesex, Engineer, for an invention for—"Improvements in the construction of goffering and rouching machines in order to render them self registering and self indicating." *Letters Patent sealed.*

WASHBURN. 11th March 1859.

628. NATHAN WASHBURN, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved machine for rolling tires for wheels." *Complete specification; Letters Patent sealed.*

CLARKE. 11th March 1859.

629. FREDERICK CLARKE, of Norland Square, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of and apparatus for cutting, drying, and preparing peat to be used as fuel or for other purposes for which it may be usefully employed." *Letters Patent sealed.*

NEWTON. 11th March 1859.

630. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of steam-engine, applicable also to the raising of water."—*A communication from abroad by Samuel Huse, of the United States of America.* *Letters Patent sealed.*

CUNLIFFE. PIGGOTT. MALLINSON. 12th March 1859.

631. JOHN CUNLIFFE, and FREDERICK PIGGOTT, both of the City of Manchester, Manufacturers, and GEORGE MALLINSON, of Salford, in the County of Lancaster, Pattern Designer, for an invention for—"Improvements in the manufacture of ornamental woven fabrics. *Letters Patent sealed.*

NEWTON. 12th March 1859.

632. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in endless chain propellers for boats and other vessels."—*A communication from abroad by Anson Wolcott, of New York.* *Provisional protection only.*

NEWTON. 12th March 1859.

633. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of shoes and other coverings for the feet."—*A communication from abroad by Christopher Meyer of New Brunswick.* *Provisional protection only.*

PALMER. 12th March 1859.

634. JAMES PALMER, of Sutton Coldfield, in the County of Warwick, Edge Tool Maker, for an invention for—"A new or improved trap for catching animals, birds, and fishes." *Provisional protection only.*

CALOW. 12th March 1859.

635. JOHN THOMAS CALOW, of Staveley, in the County of Derby, Joiner, Cabinet Maker, and Carriage Builder, for an invention for—"A compound action in cage machinery, with the apparatus connected therewith, having a perforated shield for saving life and property in the event of a rope, band, or chain breaking, or the engine-man drawing the cage too high, at coal or other shafts where slides are applicable, which said invention is also applicable to hoisting or other lifting machines." *Letters Patent sealed.*

THORNTON. 12th March 1859.

636. JAMES THORNTON, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in machinery for the manufacture of bricks, tiles and other similar articles." *Letters Patent sealed.*

COURT. 12th March 1859.

637. JOHN COURT, of Brompton Row, in the County of Middlesex, Gas Fitter, for an invention for—"An improvement in nibs for gas burners." *Letters Patent sealed.*

ALLISON. 12th March 1859.

638. RICHARD ALLISON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in apparatuses for boring and sinking." *Letters Patent sealed.*

MACNAB. 12th March 1859.

639. JAMES MACNAB, of the Town and County of Linlithgow, North Britain, Designer, for an invention for—"Improvements in telegraphing or signalling apparatus." *Letters Patent sealed.*

WALLER. 14th March 1859.

640. RICHARD WALLER, of 50, Baker Street, Portman Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in joining leather, flexible and textile materials, for the production of boots and shoes and articles of the like description, and harness, strapping, bags, sails, tent covers, portmanteaus, and such other articles, together with machinery and apparatus for that purpose." *Letters Patent sealed.*

BROOMAN. 14th March 1859.

641. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"An improved method of treating wool and other fibres in order to form threads."—*A communication from Messrs. Tavernier & Vouillon, residing in Paris.* *Letters Patent sealed*

TYLOR.
14th March 1859.

642. ALFRED TYLOR, of Warwick Lane, Newgate Street, for an invention for—"Improvements in apparatus for regulating the supply of water to waterclosets and other vessels." *Letters Patent sealed.*

LIGHTFOOT.
14th March 1859.

643. THOMAS LIGHTFOOT, of Accrington, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in fixing colours on woven fabrics or fibrous materials." *Letters Patent sealed.*

JOY.
14th March 1859.

644. DAVID JOY, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in hydraulic engines and meters." *Letters Patent sealed.*

HURST.
14th March 1859.

645. CHARLES HENRY HURST, of Victoria Terrace, Royal Road, Kennington Park, in the County of Surrey, for an invention for—"An improved wrench or spanner." *Letters Patent sealed.*

SMITH.
14th March 1859.

646. EDWIN SMITH, of Dudley Port, in the County of Stafford, Agent, for an invention for—"Improvements in treating or preparing furnaces used in the manufacture of iron." *Provisional protection only.*

PATSTONE.
14th March 1859.

647. THOMAS PATSTONE, of Birmingham, in the County of Warwick, Warehouse Clerk, for an invention for—"Improvements in shades or glasses for gas and other lamps, and in the supports of the said shades or glasses." *Letters Patent sealed.*

DAWES.
14th March 1859.

648. JOHN SAMUEL DAWES, of Smethwick House, near Birmingham, Gentleman, for an invention for—"A new or improved method or combination of arrangements for the better securing and collecting of night soil or town manure, and rendering it more valuable for agricultural purposes." *Letters Patent sealed.*

LANGTON.
15th March 1859.

649. WALTER LANGTON, of 14, Wharf, Belvidere Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in the manufacture of keys and wood fastenings used in constructing railways." *Letters Patent sealed.*

DESURMONT.
GOUDEAU.
15th March 1859.

650. CHARLES DESURMONT, of Seclin, France, Gentleman, and CHARLES GOUDEAU, of Alost, Belgium, Mechanical Engineer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

GALLOWAY.
15th March 1859.

651. GEORGE BELL GALLOWAY, of Newcastle-on-Tyne, in the County of Northumberland, for an invention for—"Improvements upon and in connection with his former Patents and in the manufacture of fuel and working steam-engines more economically." *Letters Patent sealed.*

RITCHIE.
15th March 1859.

652. CHARLES RITCHIE, of 143, the Strand, in the County of Middlesex, Engineer, for an invention for—"Improvements in calculating machines." *Provisional protection only.*

CLARK.
15th March 1859.

653. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the apparatus of electric lamps or lights."—*A communication from abroad by Victor Louis Marie Serrin, Civil Engineer, of Paris.* *Letters Patent sealed.*

RIDER.
15th March 1859.

654. BENJAMIN RIDER, of 61, Red Cross Street, Boro', in the County of Surrey, Leather Dresser and Hat Leather Manufacturer, for an invention for—"Improvements in hats, caps and other coverings for the head, and in apparatus used in the manufacture of such articles." *Letters Patent sealed.*

DIXON.
CLAYTON.
16th March 1859.

655. JOHN DIXON and ROBERT CLAYTON, both of Bradford, in the County of York, Engineers, for an invention for—"Improvements in rolling iron and steel for manufacturing railway wheels and for other purposes." *Letters Patent sealed.*

SEYMOUR.
16th March 1859.

656. GEORGE SEYMOUR, of No. 6, Golden Square, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in making refined sugar, and making potash and soda from the residue."—*A communication from abroad by Hypolite Leplay, of Pont de Madron, near Toulouse, France, Sugar Manufacturer and Chymist.* *Complete specification; protection for SIX months only.*

ROBERTSON.
ORCHAR.
16th March 1859.

657. WILLIAM ROBERTSON, of Dundee, in the County of Forfar, North Britain, Engineer, and JAMES GUTHRIE ORCHAR, of same place, Engineer, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

PARKER.
16th March 1859.

658. CHARLES PARKER, of Dundee, in the County of Forfar, North Britain, Engineer, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

PARKER. 16th March 1859.

659. JAMES PARKER, of Claremont Cottage, Lilford Road, Camberwell, Surrey, Solicitors' Clerk, for an invention for—"Improvements in lever sails and in submerged feathering propellers." *Provisional protection only.*

ASH. 16th March 1859.

660. ISAIAH ASH, of No. 17, Great Bridport Street, Blandford Square, in the County of Middlesex, Locksmith, for an invention for—"Improvements in the construction of locks and latches." *Letters Patent sealed.*

MORDAN. 16th March 1859.

661. FRANCIS MORDAN, of Goswell Road, in the County of Middlesex, Manufacturer, for an invention for—"A means of keeping a stopper connected with a bottle, jar or such like receptacle, when removed from the mouth thereof." *Provisional protection only.*

AMBLER. 16th March 1859.

662. HENRY AMBLER, of Halifax, in the County of York, for an invention for—"Improvements in breech loading ordnance and in the means of producing part or parts thereof, which improvements are also applicable to what are called small arms." *Letters Patent sealed.*

FULLER. 16th March 1859.

663. JAMES FULLER, of Reading, in the County of Berks, Turner, for an invention for—"Improvements in churns." *Provisional protection only.*

AVERY. 16th March 1859.

664. WILLIAM AVERY, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in machinery for the manufacture of screws." *Letters Patent sealed.*

MICHEL-DENYS. 16th March 1859.

665. JOSEPH MICHEL-DENYS, of Charleroi, in the Kingdom of Belgium, Gentleman, and 4, South St., Finsbury, London, for an invention for—"Certain improvements in the construction of railway crossings." *Letters Patent sealed.*

ANSCOMBE. 16th March 1859.

666. EDMUND ANSCOMBE, of No. 95, Westbourn Street, Pimlico, in the County of Middlesex, Joiner, for an invention for—"An apparatus for taking an accurate delineation of any view or object in open air or otherwise." *Provisional protection only.*

HARRIS. 16th March 1859.

667. JOSEPH HARRIS, Jr, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved carpet sweeper." *Complete specification; protection for SIX months only.*

CLARK. 16th March 1859.

668. JAMES CLARK, of Newton Heath, near Manchester, for an invention for—"Improvements in the manufacture of fabrics in which compounds containing india-rubber are used." *Letters Patent sealed.*

HAMILTON. NASH. 16th March 1859.

669. GEORGE HAMILTON, of St. Martin's le Grand, and WILLIAM HENRY NASH, of Poplar, Engineer, for an invention for—"Improvements in tumbler or lever locks, and in keys for such and other locks." *Provisional protection only.*

BESSEMER. 16th March 1859.

670. HENRY BESSEMER, of Queen Street Place, New Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of crank axles." *Letters Patent sealed.*

MILLER. 16th March 1859.

671. THOMAS WILLIAM MILLER, of Her Majesty's Dockyard, Portsmouth, for an invention for—"Improvements in blocking or securing ships and other vessels whilst being removed, examined, or repaired." *Letters Patent sealed.*

DEFRIES. 17th March 1859.

672. COLEMAN DEFRIES, of the firm of Jonas Defries and Sons, Houndsditch, for an invention for—"Improvements in lamps." *Letters Patent sealed.*

GARNETT. 17th March 1859.

673. CHARLES GARNETT, of the firm of Peter and Charles Garnett, of Cleckheaton, in the County of York, Machine Makers, for an invention for—"Improvements in machinery for ginning cotton, and for cleaning cotton and certain other fibrous materials." *Letters Patent sealed.*

JOHNSON. 17th March 1859.

674. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for folding and stitching sheets of paper."—*A communication from abroad by Messrs. Sulzberger and Graf, of Fraunfeld, Switzerland.* *Provisional protection only.*

HUGHES. 17th March 1859.

675. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for crushing sugar canes and other materials."—*A communication from Saint Jean Thérése, residing at Lamentin, Martinique, French Colony.* *Provisional protection only.*

BROOMAN. 17th March 1859.

676. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Treating barley so as to obtain new alimentary substances therefrom."—*A communication from Pierre Marmay, residing at Riom, France.* *Letters Patent sealed.*

SKELTON. 17th March 1859.

677. THOMAS SKELTON, of Plaistow, in the County of Essex, Draughtsman, for an invention for—"Improvements in steering apparatus." *Provisional protection only.*

HUTCHINSON. 17th March 1859.

678. ANDREW GEORGE HUTCHINSON, of West Derby, in the County of Lancaster, Builder, for an invention for—"Improvements for counteracting damp in buildings." *Letters Patent sealed.*

LAROCHETTE. 17th March 1859.

679. PH. LAROCHETTE, ainé, of Paris, in the Empire of France, for an invention for—"Improvements in machinery for brewing." *Letters Patent sealed.*

MEIN. 17th March 1859.

680. ALEXANDER MEIN, Glass Bottle Maker, at Saint Rollox, Glasgow, in the County of Lanark, for an invention for—"Improvements in making glass bottles and in the apparatus connected therewith." *Letters Patent sealed.*

WARNER. TOOTH. 17th March 1859.

681. ARTHUR WARNER, of 31, Threadneedle Street, in the City of London, and WILLIAM HENRY TOOTH, of Sumner Street, Southwark, in the County of Surrey, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

DONAT. 17th March 1859.

682. JULIEN DONAT, of 6, Rue Paradis, Marais, Paris, in the Empire of France, for an invention for—"Improvements in apparatus used with matches for obtaining instantaneous light." *Provisional protection only.*

COOK. 18th March 1859.

683. WILLIAM COOK, of the Town and County of the Town of Kingston-upon-Hull, Coppersmith, for an invention for—"A smoke consumer." *Provisional protection only.*

TAYLOR. 18th March 1859.

684. WILLIAM BOWERS TAYLOR, of Ballamena, in the County of Antrim, in Ireland, Gentleman, for an invention for—"Certain improvements in or applicable to looms for weaving." *Letters Patent sealed.*

ARMSTRONG. 18th March 1859.

685. Sir WILLIAM GEORGE ARMSTRONG, Knight, of Newcastle-upon-Tyne, in the County of Northumberland, Civil Engineer, for an invention for—"Improvements in the means of igniting explosive projectiles." *Provisional protection only.*

POTTS. 18th March 1859.

686. FERDINAND POTTS, of the firm of F. Potts & Co., Tube Manufacturers, of Birmingham, in the County of Warwick, for an invention for—"A combined metallic support and label for training, supporting, removing, and transplanting flowers or trees in gardens or green or hot houses, or for other horticultural purposes." *Provisional protection only.*

MOLESWORTH. 18th March 1859.

687. JOHN MOLESWORTH, of Rochdale, in the County of Lancaster, Gentleman, for an invention for—"An improvement in telegraphic communication."—*A communication from abroad by Frederick Newton Gisborne, and Francis O. J. Smith, of Boston, in the United States of America.* *Provisional protection only.*

CLEGG. FELL. 18th March 1859.

688. ROBERT CLEGG, of Islington, in the County of Middlesex, and RICHARD FELL, of Saint Ann's Place, Limehouse, in the County of Middlesex, for an invention for—"Improved apparatus for obtaining aerated fresh water from salt water." *Provisional protection only.*

HINKS. WELLS. 18th March 1859.

689. JOHN HINKS, and GEORGE WELLS, of Birmingham, in the County of Warwick, Manufacturers and Co-partners, for an invention for—"A new or improved penholder." *Provisional protection only.*

MUSHET. 18th March 1859.

690. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"A new or improved metallic alloy." *Letters Patent sealed.*

MUSHET. 18th March 1859.

691. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement in the manufacture of cast steel." *Letters Patent sealed.*

THIRION. 18th March 1859.

692. ALBERT LOUIS THIRION, Pastor, of Asche-en-Refail, Province de Namur, Kingdom of Belgium, for an invention for—"Improvements in water, wind, steam, and hand mills." *Letters Patent sealed.*

LAMBERT. 18th March 1859.

693. CHARLES LAMBERT, of Sunk Island, in the County of York, Farmer, for an invention for—"Improvements in corn and seed drills." *Letters Patent sealed.*

DUNCAN. GWYNNE. 18th March 1859.

694. JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, and JAMES EGLINGTON ANDERSON GWYNNE, of Hanover Terrace, Regent's Park, both in the County of Middlesex, Gentleman, for an invention for—"Improvements in or connected with apparatus for the generation, application, and condensation of steam, part of which apparatus or arrangements is applicable to other purposes." *Letters Patent sealed.*

ALLEN. 19th March 1859.

695. THOMAS ALLEN, of Waingate, Sheffield, in the County of York, Clothier, for an invention for—"Improvements in petticoats." *Provisional protection only.*

GINGELL. 19th March 1859.

696. WILLIAM BRUCE GINGELL, of 37, Corn Street, in the City of Bristol, Architect, for an invention for—"Improvements in the form of metal bars used for the stiles, rails, heads, and sills of window sashes, casements, and other lights." *Letters Patent sealed.*

BENZON. 19th March 1859.

697. EDMUND LEOPOLD BENZON, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"An improvement in the casting of steel."—*A communication from Ewald Riepe, residing at Pau, France.* *Provisional protection only.*

STEIN. 19th March 1859.

698. SAMUEL STEIN, of Chapel Place, Poultry, in the City of London, for an invention for—"Manufacturing a resinous carton or pasteboard from vegetable matter, an improvement for roofing, ship sheathing, lining walls to prevent dampness, and other uses."—*A communication from abroad by Auguste Marie Chevalier, of Avignon, in France.* *Provisional protection only.*

WHITAKER. 19th March 1859.

699. HENRY WHITAKER, of Newman Street, in the County of Middlesex, for an invention for—"A new musical instrument to be called 'the cherubine minor.'" *Provisional protection only.*

HART. 19th March 1859.

700. JOHN WALTER HART, of 60, St. Mary Axe, in the City of London, Gentleman, for an invention for—"An apparatus for the destruction of flies and other insects."—*A communication from abroad by Frederick Barnett, residing at Paris, in the Empire of France.* *Letters Patent sealed.*

HAIGH. 19th March 1859.

701. WILLIAM HAIGH, of Reddish, in the County of Lancaster, Paper Maker, for an invention for—"An improved manufacture of paper to be employed for the purposes of packing and other similar uses." *Provisional protection only.*

HOWDEN. MORTON. 19th March 1859.

702. JAMES HOWDEN and ALEXANDER MORTON, of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in apparatus for obtaining and regulating motive-power." *Letters Patent sealed.*

MUSHET. 19th March 1859.

703. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement or improvements in the manufacture of cast steel." *Letters Patent sealed.*

PICKSTONE. PICKSTONE. 19th March 1859.

704. WILLIAM and SAMUEL PICKSTONE, of Radcliff Bridge, near Manchester, Cotton Spinners, Manufacturers, and Dyers, for an invention for—"An improvement in stiffening, sizing, filling or weighting textile fabrics." *Letters Patent sealed.*

NEWTON. 19th March 1859.

705. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in propelling vessels."—*A communication from abroad by Theodore W. Phinney, of Newport, Rhode Island.* *Letters Patent sealed.*

CAMBRIDGE. 19th March 1859.

706. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"An improved construction of chain harrow." *Letters Patent sealed.*

HAGGETT. 21st March 1859.

707. WILLIAM HAGGETT, of Sherborne, in the County of Dorset, Architect and Surveyor, for an invention for—"An improved method of treating metals and other materials to increase their strength." *Letters Patent sealed.*

BAUCQ. 21st March 1859.

708. ARNOULD BAUCQ, Sugar Manufacturer, of Marchiennes, Department of the Nord, Empire of France, for an invention for—"Maintaining graters mechanically." *Provisional protection only.*

HUDSON.
CATLOW.
21st March 1859.

709. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, and CHRISTOPHER CATLOW, of the same place, Overlooker, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

WHITTAKER.
21st March 1859.

710. ROBERT WHITTAKER, of Lennox Mill, in the County of Stirling, North Britain, Millwright, for an invention for—"Improvements in the manufacture or construction of metallic rollers or cylinders and mandrills for printing." *Provisional protection only.*

FERGUSON.
21st March 1859.

711. GEORGE FERGUSON, of the Strand, in the County of Middlesex, Naturalist, for an invention for—"The combination and application of certain materials for the destruction of insects and vermin." *Provisional protection only.*

ROBERTS.
21st March 1859.

712. JOSEPH ROBERTS, of Staley Bridge, in the County of Chester, Engineer, for an invention for—"Improvements in packings for pistons." *Letters Patent sealed.*

LEONI.
21st March 1859.

713. SIGISMOND LEONI, of Saint Paul Street, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the manufacture of useful and ornamental articles, surfaces, and works, parts of articles, and parts of machines or apparatus, from talc and other silicates of magnesia and from the same combined with other substances." *Letters Patent sealed.*

BICKERTON.
21st March 1859.

714. JOSEPH BICKERTON, of Oldham, in the County of Lancaster, Machinist, for an invention for—"Improvements in opening and securing window-sashes." *Letters Patent sealed.*

GREGG.
21st March 1859.

715. GEORGE GREGG, of Sheffield, in the County of York, Currier, for an invention for—"Improvements in currying or manufacturing leather." *Letters Patent sealed.*

WARNE.
FANSHAWE.
JAQUES.
GALPIN.
21st March 1859.

716. WILLIAM WARNE, JOHN AMERICUS FANSHAWE, JAMES ARCHIBALD JAQUES, and THOMAS GALPIN, all of Tottenham, in the County of Middlesex, India-rubber Manufacturers, for an invention for—"An improved compound or preparation of materials for and mode of covering and insulating wires or conductors used for telegraphic or electrical purposes." *Letters Patent sealed; no specification filed.*

RHODES.
21st March 1859.

717. WILLIAM RHODES, of Wade Street, Thornton Road, Bradford, in the County of York, Whitesmith, for an invention for—"Certain improvements in fire-proof safes." *Letters Patent sealed.*

LUTZ.
22nd March 1859.

718. GEORGE PIERRE ANTOINE LUTZ, of Rue Ménars, Paris, in the Empire of France, Manufacturer, for an invention for—"An improvement in veils." *Provisional protection only.*

DAVIS.
22nd March 1859.

719. JOHN DAVIS, of No. 18, Frith Street, Soho, in the County of Middlesex, Professor of Music, for an invention for—"Improvements in musical instruments." *Letters Patent sealed.*

TAGLIACOZZO.
22nd March 1859.

720. PACIFICO TAGLIACOZZO, of 27, Broad Street Buildings, in the City of London, for an invention for—"An improvement on metallic pens." *Provisional protection only.*

GILBEE.
22nd March 1859.

721. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved apparatus for stretching and polishing silk thread."—*A communication from abroad by Messieurs Lyonnet and Prénat, of St. Etienne, France.* *Letters Patent sealed.*

WEILD.
22nd March 1859.

722. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery and arrangements for coating slips, sheets, rods, and bars of metal, and laths, rods, and boards of wood and similar articles formed of other substances, with paints, varnishes, and other like preparations, and drying the same." *Letters Patent sealed.*

ASHFORD.
22nd March 1859.

723. FREDERICK ASHFORD, of Commercial Road East, London, in the County of Middlesex, for an invention for—"Improved means of fastening and securing treasure or bullion cases." *Provisional protection only.*

PITMAN.
22nd March 1859.

724. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"Improvements in springs for railroad cars and for other purposes."—*A communication from abroad by John J. Fields, of Brooklyn, in the State of New York, one of the United States of America.* *Letters Patent sealed.*

MAYNARD. 22nd March 1859.

725. EDWARD MAYNARD, of the City of Washington, in the District of Columbia, and United States of America, for an invention for—"Improving breech-loading fire-arms." *Letters Patent sealed.*

NEWINGTON. 22nd March 1859.

726. SAMUEL NEWINGTON, of Ridgway Ticehurst, in the County of Sussex, M.D., for an invention for—"Improvements in apparatus for distributing seeds and manure." *Letters Patent sealed.*

BANKS. 22nd March 1859.

727. DANIEL LANCASTER BANKS, of Kennington, in the County of Surrey, Engineer, for an invention for—"Improvements in suspension rail or road ways, and in machinery or apparatus connected therewith." *Letters Patent sealed.*

WILKINS. 22nd March 1859.

728. WILLIAM PICKFORD WILKINS, of Ipswich, in the County of Suffolk, Engineer, for an invention for—"Improvements in the arrangements of valves and in their application to steam engines." *Letters Patent sealed.*

FAIRBAIRN. NEWTON. 22nd March 1859.

729. Sir PETER FAIRBAIRN, of Leeds, in the County of York, Knight, and ROBERT NEWTON, of Leeds aforesaid, Commercial Traveller, for an invention for—"Straightening and separating the fibres of silk waste, and laying them in parallel lengths preparatory to combing or dressing." *Letters patent sealed.*

MANLOVE. HODGKINSON. 22nd March 1859.

730. THOMAS MANLOVE, of Radford Grove, Lace Manufacturer, and WILLIAM HODGKINSON, of New Lenton, Draughtsman, both in the County of Nottingham, for an invention for—"A new method of manufacturing plain, figured, striped and plaited textile fabrics, in imitation of loom-made fabrics." *Provisional protection only.*

BROOMAN. 22nd March 1859.

731. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in fire-arms and ordnance, and in projectiles and apparatuses to be employed therewith."—*A communication from Charles Rochaz, residing at Paris.* *Letters Patent sealed.*

TYSSEN. 22nd March 1859.

732. JACOBUS TYSSEN, of Rotterdam, in the Kingdom of Holland, Mariner, for an invention for—"An improved apparatus for indicating the speed of ships and other vessels." *Letters Patent sealed.*

WATKINS. 22nd March 1859.

733. CHARLES A. WATKINS, of the firm of Hamilton & Co., Brush Manufacturers, of Greek Street, Soho Square, for an invention for—"Improvements in the manufacture of brushes." *Letters Patent sealed.*

MACINTOSH. RHODES. 22nd March 1859.

734. JOHN MACINTOSH, of North Bank, Regent's Park, Gentleman, and GODFREY RHODES, of Regent Street, Major in Her Majesty's Army, for an invention for—"Improvements in tents and such like coverings for shelter against the weather." *Letters Patent sealed.*

ORAM. 23rd March 1859.

735. SAMUEL ORAM, of No. 137, Fleet Street, in the City of London, for an invention for—"Improvements in pipes or tubes for generating and superheating steam." *Letters Patent sealed.*

ADAMSON. 23rd March 1859.

736. WILLIAM ADAMSON, of the Patent Slip, Wellington Quay, Newcastle-on-Tyne, for an invention for—"Improvements in apparatus for propelling vessels." *Letters Patent sealed.*

CLARKE. 23rd March 1859.

737. SAMUEL CLARKE, of Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the manufacture of candles." *Provisional protection only.*

MIDDLESHIP. 23rd March 1859.

738. WILLIAM MIDDLESHIP, of Grove Terrace, South Grove, Mile End, in the County of Middlesex, Officer of Her Majesty's Customs, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

EVANS. 23rd March 1859.

739. JOHN EVANS, of Nash Mills, in the Parish of King's Langley, in the County of Hertford, Paper Maker, for an invention for—"Improvements in the manufacture of paper." *Letters Patent sealed.*

BROWNE. 23rd March 1859.

740. BENJAMIN BROWNE, of No. 52, King William Street, London Bridge, in the City of London, and County of Middlesex, Civil Engineer and Patent Agent, for an invention for—"A new method of working or operating switches and signals on railways by improved apparatus for that purpose."—*A communication from abroad by Victor Armand Prou, of Rue de Sèvres, Paris, in the Empire of France.* *Letters Patent sealed.*

HIELAKKER. 23rd March 1859.

741. JEAN VANDEN HIELAKKER, of the City of Brussels, in the Kingdom of Belgium, Civil Engineer, for an invention for—"Improved apparatus for pressing or moulding artificial or patent fuel, fire-bricks and similar articles." *Provisional protection only.*

NEAL. 23rd March 1859.

742. GEORGE NEAL, Gas Chandelier and Fitting Manufacturer, of Great Charles Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in apparatus or fittings connected with the burning of gas for regulating and economising its consumption." *Letters Patent sealed.*

DELANY. 23rd March 1859.

743. WILLIAM DELANY, of Norfolk Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in ploughs for tilling land."—*A communication from abroad by Lodner D. Phillips, of Chicago, in the United States of America.* *Provisional protection only.*

JOHNSON. 23rd March 1859.

744. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for the manufacture of sheet tin."—*A communication from abroad by Monsieur Masson, of Paris, in the Empire of France.* *Letters Patent sealed.*

BOLL. REGER. 23rd March 1859.

745. PIERRE PAUL BOLL, of Paris, in the French Empire, Gentleman, and HERMANN REGER, of Cologne, Gentleman, for an invention for—"Improvements in steam boiler and other furnaces."—*A communication from Antoine Speich, residing at Strasbourg.* *Letters Patent sealed.*

TILLETT. 23rd March 1859.

746. FREDERIC TILLETT, of Banner Street, in the Parish of St. Luke's, in the County of Middlesex, Splint Cutter, for an invention for—"Improvements in machinery for cutting splints for matches." *Letters Patent sealed.*

GARFORTH. GARFORTH. 24th March 1859.

747. WILLIAM GARFORTH and JAMES GARFORTH, both of Dukinfield, in the County of Chester, Engineers, for an invention for—"A certain improvement in metallic pistons." *Letters Patent sealed.*

WILEY. 24th March 1859.

748. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, in the County of Warwick, Gold Pen and Pencil Case Manufacturer, for an invention for—"Improvements in the manufacture of boxes or cases used for holding needles, pens, matches, pencils, and for other like purposes." *Letters Patent sealed.*

WILEY. 24th March 1859.

749. WILLIAM EDWARD WILEY, of 34, Great Hampton Street, Birmingham, in the County of Warwick, Gold Pen and Pencil Case Manufacturer, for an invention for—"New or improved instruments to be used in burning and supporting candles." *Provisional protection only.*

SHARP. 24th March 1859.

750. FREDERICK EDWARD SHARP, of 3, Gloucester Terrace, Blackheath, in the County of Kent, for an invention for—"Improvements in machinery for corking bottles." *Letters Patent sealed.*

TEBBUTT. 24th March 1859.

751. EDWARD SQUIRE TEBBUTT, of the firm of W. J. Windram & Co., of Leicester, Elastic Web Manufacturers, for an invention for—"Improvements in the manufacture of elastic fabrics." *Provisional protection only.*

SANDERSON. 24th March 1859.

752. CHARLES SANDERSON, of Sheffield, in the County of York, Merchant, for an invention for—"Improvements in preparing, tempering, and covering or coating thin strips or sheets of steel." *Letters Patent sealed.*

CLARK. 24th March 1859.

753. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A machine for separating oats from their husks or chaff."—*A communication from abroad by Léon Jean Emile Dupont, of Paris.* *Letters Patent sealed.*

RIGBY. 25th March 1859.

754. HUGH RIGBY, of Salford, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for obtaining motive-power, applicable to hoists and all other purposes to which motive power can be applied." *Letters Patent sealed.*

COWPER. 25th March 1859.

755. CHARLES COWPER, of 20, Southampton Buildings, Cnancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in telegraphic cables."—*A communication from abroad by Robert Jefferson Bingham, of Rue de la Rochefoucauld, Paris, in France.* *Provisional protection only.*

BAKER.
25th March 1859.

756. RICHARD BAKER, of Liverpool, in the County of Lancaster, Watch Maker, for an invention for—"Improvements in chronometers, watches, and other timekeepers." *Letters Patent sealed.*

JOHNSON.
25th March 1859.

757. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fire arms."—*A communication from abroad by Francis H. Bell, of the City and County of Washington, in the District of Columbia, in the United States of America.* *Letters Patent sealed.*

NEWTON.
25th March 1859.

758. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in ovens for baking bread and other substances."—*A communication from abroad by Thomas Russell, of New York.* *Letters Patent sealed.*

HILL.
25th March 1859.

759. CHRISTOPHER HILL, of the Chippenham Station, Great Western Railway, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

HUMPHREYS.
25th March 1859.

760. HUMPHREY HUMPHREYS, the elder, of Buckingham, in the County of Buckingham, Gentleman, for an invention for—"An improvement in unhairing hides and skins, and in the manufacture of leather." *Provisional protection only.*

HASELTINE.
26th March 1859.

761. GEORGE HASELTINE, Gentleman, of Washington, in the District of Columbia, United States of America, now of 37, King Street, in the City of London, for an invention for—"Improvements in the manufacture of small metallic chains."—*A communication from Edwin H. Perry, of Rhode Island, United States.* *Letters Patent sealed.*

REDGRAVE.
26th March 1859.

762. WILLIAM REDGRAVE, of Tavistock Street, in the County of Middlesex, Tailor, for an invention for—"An improved pillow travelling cap." *Letters Patent sealed; no specification filed.*

STEANE.
26th March 1859.

763. ELIZABETH STEANE, of Manor Rise, Brixton, in the County of Surry Widow, for an invention for—"An improved means or apparatus for preventing candles dropping or guttering." *Letters Patent sealed.*

DREYFOUS.
RICHER.
CORMIER.
26th March 1859.

764. SAMUEL DREYFOUS, GUY RICHER, Civil Engineers, and EDOUARD CORMIER, Merchant, all of Paris (France), for an invention for—"Improvements in preserving eggs." *Provisional protection only.*

FIRTH.
26th March 1859.

765. MARK FIRTH, of the firm of Thomas Firth and Sons, of Sheffield, in the County of York, Steel Manufacturers and Merchants, for an invention for—"Improvements in machinery for grinding saws and flat plates of steel."—*A communication from E. T. Jones, residing in Montreal.* *Letters Patent sealed.*

NAYLOR.
26th March 1859.

766. GEORGE NAYLOR, of No. 7, Durnford Street East, Stonehouse, in the County of Devon, a Lieutenant in the Royal Marines Light Infantry, for an invention for—"An apparatus for measuring and indicating the distance passed over or travelled by the same." *Letters Patent sealed; no specification filed.*

EVANS.
SOAMES.
26th March 1859.

767. JOHN CAMPBELL EVANS, and PETER SOAMES, of the Morden Iron Works, East Greenwich, in the County of Kent, Engineers, for an invention for—"Improvements in apparatus for superheating steam." *Letters Patent sealed.*

MUIR.
M^{c}ILWHAM.
26th March 1859.

768. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, and JAMES MI^{c}LWHAM, of the same place, Machinist, for an invention for—"Improvements in moulding or shaping metals." *Letters Patent sealed.*

DOWLING.
26th March 1859.

769. EDWARD DOWLING, of Little Queen Street, Holborn, in the County of Middlesex, Scale Maker, for an invention for—"Improvements in weights." *Provisional protection only.*

SMITH.
SMITH.
26th March 1859.

770. BENJAMIN SMITH, and CHARLES LAVERS SMITH, both of Corbet's Court, Spitalfields, in the County of Middlesex, Manufacturing Chemists, for an invention for—"Improvements in the preparation of certain colouring matter applicable for dyeing and printing." *Letters Patent sealed.*

BUCKLEY. GREENHALGH. HUTCHINSON. 26th March 1859.

771. JOSEPH BUCKLEY, of Horwich, in the County of Lancaster, Calico Printer, ORLANDO GREENHALGH, of the same place, Manager, and ROBERT HUTCHINSON, of the same place, Mechanic, for an invention for—"Improvements in machinery or apparatus for printing woven fabrics." *Letters Patent sealed.*

RICHARDSON. 28th March 1859.

772. CHARLES JAMES RICHARDSON, of No. 34, Kensington Square, and of No. 9a, King Street, Whitehall, both in the County of Middlesex, Architect, for an invention for—"Improvements in apparatus to be applied to chimnies or flues of buildings for preventing down draught or return smoke, for their insuring upward ventilation, and for reducing the quantity of smoke or the blacks from the smoke passing into the atmosphere." *Letters Patent sealed.*

VASSEROT. 28th March 1859.

773. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved diving apparatus."—*A communication from Philippe Bigard, residing in Lyons, in the Empire of France.* *Letters Patent sealed; no specification filed.*

BUCKINGHAM. 28th March 1859.

774. JAMES BUCKINGHAM, of Westmoreland House, Walworth Common, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in machinery or apparatus employed in drawing fibrous substances." *Letters Patent sealed.*

NEWTON. 28th March 1859.

775. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of furnace for reheating steel preparatory to the hardening, tempering, or annealing process."—*A communication from abroad by Perry Green Gardiner, of New York.* *Provisional protection only.*

TURNER. 28th March 1859.

776. ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics." *Provisional protection only.*

NEWTON. 28th March 1859.

777. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for retaining the oil or other fluid used for annealing, tempering, and hardening steel at an equable low temperature."—*A communication from abroad by Perry Green Gardiner, of New York.* *Provisional protection only.*

CARR. 29th March 1859.

778. THOMAS CARR, of Bebington, in the County of Chester, Artificial Manure Manufacturer, for an invention for—"Improvements in machinery for disintegrating artificial manures and various other substances." *Letters Patent sealed.*

ROBERTS. 29th March 1859.

779. CHARLES LEWIS ROBERTS, of Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in cigars." *Letters Patent sealed.*

MOSSMAN. 29th March 1859.

780. WILLIAM MOSSMAN, of No. 50, Cumming Street, Pentonville, in the Parish of Clerkenwell, in the County of Middlesex, Manufacturing Stationer, for an invention for—"Improvements in machinery applied to embossing or cutting presses for the better and more expeditious manner of manufacturing ornamental cut out and embossed work in paper, leather, parchment, cloth, foil, and other material." *Complete specification; Letters Patent sealed.*

KELLY. 29th March 1859.

781. JOHN WILLIAM KELLY, Civil Engineer, of the Town of Ennis, in the County of Clare, Ireland, for an invention for—"Improvements in gas-burners." *Letters Patent sealed.*

DE CARANZA. 29th March 1859.

782. ERNEST DE CARANZA, of No. 97, Rue des Petits Champs, in the City of Paris, in the Empire of France, Engineer, for an invention for—"A new system of gas-lighting through new apparatuses and matters richer in gas than pit coal." *Provisional protection only.*

NORMINTON. 29th March 1859.

783. EDWIN NAPOLEON NORMINTON, of 19, High Street, Camden Town, in the County of Middlesex, for an invention for—"The cleansing and remanufacturing of old used dirty railway grease, for the manufacturing of new railway grease, for the cleansing and remanufacturing of old used cotton waste, tow, or any textile fabrics, and for the purifying of oils or any fatty matter." *Provisional protection only.*

MEEKINS. 29th March 1859.

784. THOMAS MOSSOM MEEKINS, of 14, Old Square, Lincoln's Inn, in the County of Middlesex, Barrister at Law, for an invention for—"The production of a motive power and of a projectile and explosive force to be used in instruments of war." *Provisional protection NOT granted.*

SEARLE. 29th March 1859.

785. RICHARD SEARLE, of Woodford Wells, in the County of Essex, Gentleman, for an invention for—"Improvements in apparatus used for transmitting signals by electricity for telegraphic purposes, and in the construction of telegraphic cables." *Letters Patent sealed.*

SPIGHT. 29th March 1859.

786. ISAAC SPIGHT, of Glandford Briggs, in the County of Lincoln, Iron Founder and Agricultural machine Maker, for an invention for—"Improvements in horse hoes." *Letters Patent sealed.*

TAYLOR. 29th March 1859.

787. THOMAS TAYLOR, of Vere Street, in the County of Middlesex, Chemist, for an invention for—"Improved means of giving increased strength to paper." *Letters Patent sealed.*

BURT. 29th March 1859.

788. HENRY POTTER BURT, of Charlotte Row, Mansion House, in the City of London, for an invention for—"Improvements in apparatus for preparing and preserving timber." *Letters Patent sealed.*

MOSS. WEST. 29th March 1859.

789. HENRY MOSS, of 62, Brill Row, Somers Town, in the County of Middlesex, Boot and Shoe Manufacturer, and THOMAS WEST, of 5, Jewin Street, in the City of London, Machinist, for an invention for—"A machine for the cutting of leather for every purpose, and cutting cloths, linen, and other fabrics and materials." *Letters Patent sealed.*

BROWN. 30th March 1859.

790. WALTER BROWN, of Bolton-le-Moors, in the County of Lancaster, Clog Manufacturer, for an invention for—"Improvements in manufacturing clog soles and in the machinery employed therein." *Letters Patent sealed.*

LINSEY. 30th March 1859.

791. JOHN HENRY LINSEY, of No. 103, Cheapside, in the City of London, for an invention for—"Certain improvements in binding or covering books." *Provisional protection only.*

HADWEN. 30th March 1859.

792. JOHN WILSON HADWEN, of Kebroyd Mills, in the Parish of Halifax, and West Riding of the County of York, Cotton Spinner, for an invention for—"A new art or manufacture for converting certain kinds of silk waste into yarns or threads." *Letters Patent sealed.*

EDWARDS. 30th March 1859.

793. WILLIAM VAUGHAN EDWARDS, of Swindon, in the County of Wilts, Ironfounder, for an invention for—"Improvements in the construction of ways and apparatus to facilitate the conveyance of mails, goods, and passengers." *Provisional protection only.*

BOUSFIELD. 30th March 1859.

794. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in preventing explosions in steam boilers."—*A communication from abroad by François Marchal, of Clermond-Ferand, in the Empire of France, Engineer of the Paris and Lyons Railway.* *Provisional protection only.*

SHIPMAN. 30th March 1859.

795. THOMAS DOWNS SHIPMAN, of Toronto, Canada West, North America, for an invention for—"Improvements in apparatus for stamping and printing."—*Partly a communication when abroad from Mr. Kendell, of Canada aforesaid.* *Letters Patent sealed.*

JEFFERIES. 30th March 1859.

796. HUMPHREY JEFFERIES, of Birmingham, in the County of Warwick, Button Maker, for an invention for—"Improvements in castors for furniture." *Provisional protection only.*

CARTWRIGHT. 30th March 1859.

797. JOHN CARTWRIGHT, of Shrewsbury, in the County of Salop, Agricultural Implement Manufacturer, for an invention for—"An improved implement for crushing clods and pulverizing the surface soil, also convertible into a press wheel roller." *Letters Patent sealed.*

COLES. 30th March 1859.

798. COWPER PHIPPS COLES, of Southsea, in the County of Hants, Captain R.N., for an invention for—"An apparatus for defending guns and gunners in ships of war, gun boats, and land batteries." *Letters Patent sealed.*

GOSSAGE. 30th March 1859.

799. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of certain alkaline silicates and in the production therefrom of liquor silicis or liquid flint." *Provisional protection only.*

NEWTON. 30th March 1859.

800. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved governor for marine and other steam engines."—*A communication from abroad by H. C. Sergeant, of the United States of America.* *Letters Patent sealed.*

SMITH. SMITH. 30th March 1859.

801. WILLIAM SMITH, of King Street, Smithfield, in the City of London, and EDMUND SMITH, of Hamburgh, Gas Meter Manufacturers, for an invention for—"Improvements in means or apparatus for the purpose of regulating the flow or passage of fluids." *Letters Patent sealed.*

LACY. SIMPSON. SMITH. 31st March 1859.

802. JOHN LACY, Cotton Spinner, and SAMUEL SIMPSON, and HENRY SMITH, Managers, all of Travis Holme Mill, Walsden, near Todmorden, in the County of Lancaster, for an invention for "Certain improvements in machinery for preparing and spinning cotton and other fibrous materials." *Letters Patent sealed.*

PICKERING. 31st March 1859.

803. CHARLES PICKERING, of Tonbridge, in the County of Kent, for an invention for—"Improved apparatus for brewing." *Provisional protection only.*

ROSS. 31st March 1859.

804. ROBERT CRAIB ROSS, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improved apparatus for cultivating land. *Provisional protection only.*

IVORY. 31st March 1859.

805. THOMAS IVORY, of Edinburgh, Advocate, for an invention for—"Improvements in rotary engines." *Letters Patent sealed.*

IVORY. 31st March 1859.

806. THOMAS IVORY, of Edinburgh, Advocate, for an invention for—"Improvements in steam-boilers and furnaces for the same." *Letters Patent sealed.*

MORTON. 31st March 1859.

807. ALEXANDER MORTON, of Morton Place, Kilmarnock, for an invention for—"Improvements in sextants or quadrants for nautical purposes, and which are also adapted to the measuring of altitudes or angular distances." *Letters Patent sealed.*

WHITE. 31st March 1859.

808. DAVID BLAIR WHITE, of Newcastle-upon-Tyne, in the County of Northumberland, Doctor of Medicine, for an invention for—"An improved indicating guage-lead or plummet." *Provisional protection only.*

BATESON. 31st March 1859.

809. SAMUEL STEPHEN BATESON, of 17, Bolton Street, Mayfair, in the County of Middlesex, Barrister at Law, for an invention for—"Improvements in generating steam and in the apparatus employed therein." *Letters Patent sealed.*

MORTON. 31st March 1859.

810. FRANCIS MORTON, of James Street, Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of fences, and the posts or pillars for the same, parts of which improvements are also applicable to the construction of gate posts or poles for telegraph purposes or for signal posts." *Letters Patent sealed.*

NEWTON. 31st March 1859.

811. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in mills for cleaning rice."—*A communication from abroad by Peter McKinley, of Charleston, in the United States of America.* *Letters Patent sealed.*

NEWTON. 31st March 1859.

812. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of steam boiler and other furnaces."—*A communication from abroad by Jonathan Amory, of Boston, in the United States of America.* *Letters Patent sealed.*

CLARK. 1st April 1859.

813. DANIEL KINNEAR CLARK, of 11, Adam Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Feed water heating apparatus." *Letters Patent sealed.*

AUBURTIN. 1st April 1859.

814. FREDERIC PHILIPPE AUGUSTE AUBURTIN, of Paris, in the Empire of France, at present residing at No. 32, Gerard Street, Islington, in the County of Middlesex, for an invention for—"An improved preparation of food for herbivorous animals."—*Complete specification.* *Letters Patent sealed.*

SIGISMUND. 1st April 1859.

815. ISIDOR SIGISMUND, of Hull, in the County of York, Dentist, for an invention for—"Certain improvements in the manufacture of artificial teeth and in the apparatus connected therewith."—*Partly a communication from Simon Baron Sigesmond, of New York, U.S.A.* *Provisional protection only.*

BROOMAN. 1st April 1859.	**816.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for an invention for—"Improvements in machinery for solidifying, pressing, and moulding."—*A communication from Felix Dehaynin, residing at Paris.* *Provisional protection only.*
BROOMAN. 1st April 1859.	**817.** RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechahics' Magazine, and Patent Agent, for an invention for—"A new preparation of indigo for dyeing."—*A communication from Messieurs Depoully, Frères, residing at Paris.* *Provisional protection only.*
NEWTON. 1st April 1859.	**818.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in cricket bats."—*A communication from abroad by Michael Doherty, of Boston, in the United States of America.* *Letters Patent sealed.*
NEWTON. 1st April 1859.	**819.** WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved process of manufacturing sulphate of lead, carbonate of lead, nitrate of potash, and sulphate of soda."—*A communication from Samuel Cooper, of Boston, in the United States of America.* *Letters Patent sealed.*
DAVIS. 1st April 1859.	**820.** JOHN JAMES DAVIS, of Percival Street, Clerkenwell, in the County of Middlesex, Die Sinker and Press Manufacturer, for an invention for—"An improved pad applicable for inking, damping and other like purposes by hand." *Provisional protection only.*
TOD. 1st April 1859.	**821.** WILLIAM TOD, of Glasgow, in the County of Lanark, North Britain, Marine Engineer, for an invention for—"Improvements in marine steam engines." *Letters Patent sealed.*
THOMAS. 1st April 1859.	**822.** YVES-MARIE THOMAS, of 2, Rue Sainte-Appoline, Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"An improved propeller for ships, vessels, boats, and water-wheels." *Letters Patent sealed.*
DESMET-SÉAUT. 2nd April 1859.	**823.** JOSEPH DESMET-SÉAUT, of Mons, in the Kingdom of Belgium, and 4, South Street, Finsbury, London, Mechanician, for an invention for—"An improved gas burning and lighting apparatus." *Provisional protection only.*
RIPLEY. ROBERTS. 2nd April 1859.	**824.** ABRAHAM RIPLEY, of 21, Bridge Street, Blackfriars, London, County of Middlesex, Engineer, and JOHN ROBERTS, of Nelson Square, Bermondsey, County of Surrey, Engineer, for an invention for—"Improvements in machinery for striking or scraping leather and tanned or untanned hides." *Letters Patent sealed.*
HALL. SPARKES. 2nd April 1859.	**825.** JOHN HALL, of Queen's Road, Chelsea, Engineer, and JOHN SAY SPARKES, of St. John's Wood, Gentleman, both in the County of Middlesex, for an invention for—"An improved application of machinery for the purpose of hoisting, lowering, pulling, or drawing weights." *Provisional protection only.*
BESSEMER. 2nd April 1859.	**826.** ANTHONY BESSEMER, of Tavistock Terrace, Upper Holloway, in the County of Middlesex, Gentleman, for an invention for—"Improvements in furnaces to be employed in the manufacture of iron and steel." *Provisional protection only.*
DESBOROUGH. 2nd April 1859.	**827.** SPENDLOVE DESBOROUGH, of No. 24, Noble Street, in the City of London, Agent, for an invention for—"Improvements in making up needles, steel pens and other small articles, for sale." *Provisional protection only.*
SKERTCHLY. 2nd April 1859.	**828.** JOSEPH SKERTCHLY, of Ashby-de-la-Zouch, in the County of Leicester, Engineer, for an invention for—"Improvements in apparatus for regulating the pressure of gas." *Provisional protection only.*
MATHER. 2nd April 1859.	**829.** WILLIAM MATHER, of the City of Manchester, in the County of Lancaster, Wholesale Druggist, for an invention for—"An improved apparatus for catching and destroying flies and other insects." *Provisional protection only.*
PAGET. 2nd April 1859.	**830.** ARTHUR PAGET, of Loughborough, in the County of Leicester, Manufacturer, for an invention for—"Improvements in machinery or apparatus for the manufacture of looped fabrics, and in the manner of constructing the same." *Letters Patent sealed.*
SCOTT. 2nd April 1859.	**831.** MICHAEL SCOTT, of 26, Parliament Street, Westminster, for an invention for—"Improvements in diving apparatus." *Provisional protection only.*

COUPLAND. 2nd April 1859.

832. MICHAEL COUPLAND, of Haggerstone, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces." *Letters Patent sealed.*

RICHARDSON. JAFFREY. 2nd April 1859.

833. THOMAS RICHARDSON, of Hartlepool, in the County of Durham, Engineer, and GEORGE WILLIAM JAFFREY, of the same place, Engineer, for an invention for—"Improvements in the arrangement and construction of harbours of refuge, breakwaters, sea walls or barriers, and other like structures." *Letters Patent sealed.*

WILLIAMS. FULLER. 2nd April 1859.

834. THOMAS WILLIAMS, of Aberdaron, in the County of Caernarvon, Engineer, and JOHN HOBSON FULLER, of 70, Hatton Garden, in the County of Middlesex, Tool Manufacturer, for an invention for—"Improvements in screw stocks and dies." *Letters Patent sealed.*

POTTS. BROUGH. 4th April 1859.

835. FERDINAND POTTS, of the firm of F. Potts & Co., Tube Manufacturers, and ROBERT BROUGH, Engineer, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the manufacture of calico printing rollers or cylinders, also in the machinery and apparatus for performing certain parts of the same, and which said apparatus are also applicable separately or conjointly to the manufacture of parallel and other metallic tubes and the rolling of the metal for the same or other purposes." *Provisional protection only.*

ECCLES. 4th April 1859.

836. JOSEPH ECCLES, of Blackburn, in the County of Lancaster, Cotton Manufacturer, for an invention for—"Improvements in machinery for making bricks, tiles, and other articles formed of plastic materials." *Letters Patent sealed.*

KIRKMAN. 4th April 1859.

837. CHARLES FELTON KIRKMAN, of Argyl Street, Regent Street, London, Gentleman, for an invention for—"Protecting telegraph wires and in useing them for subterranean and submarine purposes." *Provisional protection only.*

KIRKMAN. 4th April 1859.

838. CHARLES FELTON KIRKMAN, of Argyll Street, Regent Street, London, Gentleman, for an invention for—"Improvements in the manufacture of cocoa nut fibre yarn and matting." *Provisional protection only.*

BROWN. MAY. 4th April 1859.

839. WILLIAM BROWN and CHARLES NEALE MAY, both of Devizes, in the County of Wilts, Engineers, for an invention for—"Improvements in hay making machines." *Provisional protection only.*

BURTON. 4th April 1859.

840. JAMES HENRY BURTON, of Enfield Lock, in the County of Middlesex, for an invention for—"Improvement in the manufacture of barrels for small fire arms." *Letters Patent sealed.*

NEWTON. 4th April 1859.

841. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in ladies' hooped skirts."—*A communication from abroad by George Mallory, of Watertown, Newhaven, United States of America.* *Provisional protection only.*

NEWTON. 4th April 1859.

842. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of retarding apparatus or break for railway carriages."—*A communication from abroad by Mr. Augustin Castellvi, of Saragossa, in the Kingdom of Spain.* *Provisional protection only.*

RUSSELL. 4th April 1859.

843. CHAMPION RUSSELL, of Stubbers, near Romford, in the County of Essex, Esquire, for an invention for—"An improvement in the working of marine engines." *Letters Patent sealed.*

CROOKER. 4th April 1859.

844. MATTHEW AUGUSTUS CROOKER, of New York, United States of America, Engineer, for an invention for—"Improvements in paddle wheels for steamers." *Letters Patent sealed.*

WHITE. 4th April 1859.

845. DAVID BLAIR WHITE, of Newcastle-on-Tyne, M.D., for an invention for—"Improvements in arranging ships' and other pumps." *Letters Patent sealed.*

MOREWOOD. 4th April 1859.

846. EDMUND MOREWOOD, of Enfield, in the County of Middlesex, for an invention for—"Improvements in coating metals." *Letters Patent sealed.*

SOWDEN. 4th April 1859.

847. DAVID SOWDEN, of Bradford, in the County of York, Jacquard Machine Maker, for an invention for—"Improvements in jacquard machines employed for weaving figured goods or fabrics." *Provisional protection only.*

SHANKS. 5th April 1859.

848. ANDREW SHANKS, Engineer, No. 6, Robert Street, Adelphi, Westminster, for an invention for—"Certain improvements in machinery for forging and stamping metals." *Letters Patent sealed.*

HASELTINE. 5th April 1859.

849. GEORGE HASELTINE, of the United States of America, now of 4, Southampton Buildings, Holborn, in the County of Middlesex, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

FAIRBURN. 5th April 1859.

850. EDWARD FAIRBURN, of Kirklees Mills, Mirfield, in the County of York, Card Manufacturer, for an invention for—"Improvements in machinery for carding wool and other fibrous substances." *Letters Patent sealed.*

BRIERLEY. GEERING. 5th April 1859.

851. LEONARD BRIERLEY, of Birmingham, in the County of Warwick, Manufacturer, and HENRY GEERING, of Birmingham aforesaid, Manufacturer, for an invention for—"A new or improved method of ornamenting metallic bedsteads and other articles of metallic furniture." *Letters Patent sealed.*

BAKEWELL. 5th April 1859.

852. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in open fire-places."—*A communication from abroad by Calvin Dodge, of Pittsburgh, North America.* *Letters Patent sealed.*

CHANTRELL. DUTCH. 5th April 1859.

853. GEORGE FREDERIC CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, and EDWARD DUTCH, of the same place, Commercial Traveller, for an invention for—"Improvements in the apparatus for regulating the quantity of water to be used for the flushing of waterclosets and other purposes." *Letters Patent sealed.*

BROWNE. 5th April 1859.

854. BENJAMIN BROWNE, of No. 52, King William Street, London Bridge, in the City of London & County of Middlesex, Civil Engineer and Patent Agent, for an invention for—"Improvements in propelling ships or other vessels through water."—*A communication from abroad by Philip Kearney Skinner, of Bombay, in the East Indies, a Colonel in the Bombay Army.* *Provisional protection only.*

HETHERINGTON. WEBB. CRAIG. 5th April 1859.

855. JOHN HETHERINGTON, of Manchester, in the County of Lancaster, Machinist, and THOMAS WEBB & JAMES CRAIG, of Tutbury, in the County of Derby, Cotton Spinners, for an invention for—"Improvements in machinery or apparatus for spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

SCOTT. 5th April 1859.

856. THOMAS SCOTT, of Dundee, in the County of Forfar, North Britain, Gentleman, for an invention for—"Improvements in preparing, treating, or manufacturing fibrous materials, and in the apparatus employed therein." *Provisional protection only.*

LIBOTTE. 5th April 1859.

857. NICOLAS LIBOTTE, Mechanician, of 33, Boulevard St. Martin, Paris (Empire of France), for an invention for—"An improved safety apparatus to be applied to cages in the drawing of coals." *Letters Patent sealed.*

CRICHTON. 5th April 1859.

858. FRANCIS MALTBY CRICHTON, of Stoke Abbey, Stoke Bishop, in the Parish of Westbury-upon-Frym, in the County of Gloucester, Gentleman, for an invention for—"Improvements in clocks or time-keepers." *Letters Patent sealed.*

LUFF. 6th April 1859.

859. THOMAS PURNELL LUFF, of Shepton Mallet, in the County of Somerset, Estate Agent, for an invention for—"Improvements in cheese vats." *Provisional protection only.*

ADAMS. 6th April 1859.

860. ISAAC ADAMS, of the State of Massachusetts, of the United States of America, for an invention for—"An improved tubular chain cable guide for vessels' bulwarks."—*A communication from Alfred S. Phillips, a resident of Boston, of the said State of Massachusetts.* *Complete specification; Letters Patent sealed.*

BALLANDE. 6th April 1859.

861. JEAN AUGUSTE HILARION BALLANDE, of Paris, in the Empire of France, Gentleman, for an invention for—"An improvement in the preparation of writing paper and ink to be used thereon." *Letters Patent sealed; no specification filed.*

OWEN. 6th April 1859.

862. WILLIAM OWEN, of Rotherham, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of railway wheels and tyres and in the apparatus employed therein."—*Partly a communication from Robert Owen, residing at San Ge Ronimo, Central America.* *Letters Patent sealed.*

ROGERS. TWEED. 6th April 1859.

863. JOSEPH ROGERS, of 9, Queen Square, Bartholomew Close, in the City of London, Rope Maker, and EDWARD JOHNSON TWEED, of 22, Castle Street, Falcon Square, also in the City of London, for an invention for—"Improvements in coating conducting wires used for electric telegraphic purposes." *Letters Patent sealed.*

SCOFFERN. 6th April 1859.

864. JOHN SCOFFERN, of 4, Barnard's Inn, Bachelor of Medicine, for an invention for—"Improvements in lubricating projectiles and cartridges." *Letters Patent sealed.*

MOSELEY. 7th April 1859.

865. DAVID MOSELEY, of the Chapel Field Works, Ardwick, in the City of Manchester, Manufacturer of India-rubber and Gutta-percha, for an invention for—"Improvements in the manufacture of cards for carding cotton and other fibrous materials." *Letters Patent sealed.*

CHAPLIN. 7th April 1859.

866. ALEXANDER CHAPLIN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

POSTLETHWAITE. 7th April 1859.

867. ROBERT POSTLETHWAITE, of Liverpool, in the County of Lancaster, Saddler, for an invention for—"An improvement in harness pads for horses." *Letters Patent sealed.*

WARDELL. KEARSLEY. 7th April 1859.

868. ROBERT WARDELL, of Stanwick, in the County of York, and HENRY KEARSLEY, of Ripon, in the County of York, for an invention for—"Improvements in reaping-machines. *Provisional protection only.*

CHAMPNEY. 7th April 1859.

869. GEORGE CHAMPNEY, of Halsham, in the East Riding of the County of York, Farmer, for an invention for—"Improvements in reaping-machines." *Provisional protection only.*

LAKIN. 7th April 1859.

870. JOHN LAKIN, the younger, of Hall End, near Tamworth, in the County of Warwick, Farmer, for an invention for—"A new or improved agricultural drill." *Provisional protection only.*

GARRETT. 7th April 1859.

871. JOHN GARRETT, of Arundel Place, Haymarket, in the County of Middlesex, Tinman, for an invention for—"Improvements in the construction of goblets, jugs, and other like articles." *Letters Patent sealed.*

RAWLINGS. 7th April 1859.

872. JAMES RAWLINGS, of Carlton Hill East, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of boot-tree." *Provisional protection only.*

PITMAN. 8th April 1859.

873. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"Improvement in the construction and use of fire-works for signals."—*A communication from abroad by Martha J. Coston, of the City of Washington, D.C., in the United States of America.* *Letters Patent sealed.*

SMITH. 8th April 1859.

874. WILLIAM HENRY SMITH, of the City of Philadelphia, in the State of Pennsylvania, one of the United States of America, M.D., for an invention for—"Improvements in the construction of cartridges and in the fire-arm for using the same." *Provisional protection only.*

BINDLEY. HINKS. 8th April 1859.

875. JOHN BINDLEY, of Birmingham, in County of Warwick, Engineer, and JOSEPH LESTER HINKS, of Birmingham, aforesaid, Manufacturer, for an invention for—"Improvements in rotatory steam-engines and pumps, a portion of which improvements may also be applied to the bearings of shafts or axles and other rotating bodies." *Letters Patent sealed.*

CAMPION. 8th April 1859.

876. WILLIAM CAMPION, of the Town and County of the Town of Nottingham, Machine Builder, of the firm of W. W. Campion, of the said Town, Machine Builders, for an invention for—"Improvements in machinery for the manufacture of looped fabrics." *Letters Patent sealed.*

WHEELDON. 8th April 1859.

877. MATTHEW WHEELDON, of No. 174, Liverpool Road, Burslem, in the County of Stafford, Glass Cutter, for an invention for—"An improvement in looking-glasses and mirrors." *Letters Patent sealed.*

MENNONS. 8th April 1859.

878. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved articulated joint for water, gas and steam pipes."—*A communication from Victor Doré, a person resident in Paris, France.* *Letters Patent sealed.*

MENNONS. 8th April 1859.

879. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in the treatment of mineral phosphates of lime."—*A communication from B. de Siebenthal, a person residing in Paris.* *Letters Patent sealed.*

GRUMEL. 8th April 1859.

880. NICOLAS ALEXIS GRUMEL, formerly a Dyer, and at present Ink Manufacturer, in Paris, in the Empire of France, for an invention for—"Improvements in dyeing cotton, wool, silk, flax, and other fibrous materials or fabrics." *Letters Patent sealed.*

HOOPER. 8th April 1859.

881. WILLIAM HOOPER, of Mitcham, in the County of Surry, India-rubber Manufacturer, for an invention for—"Improvements in insulating and protecting telegraphic conductors." *Letters Patent sealed.*

HOOPER. 8th April 1859.

882. WILLIAM HOOPER, of Mitcham, in the County of Surry, India-rubber Manufacturer, for an invention for—"Improvements in reworking or remanufacturing compounds of india-rubber and sulphur." *Letters Patent sealed.*

HENDERSON. 8th April 1859.

883. WILLIAM HENDERSON, of Alderley Edge, in the County of Chester, Chemist, for an invention for—"Improvements in treating certain ores and in obtaining products therefrom." *Letters Patent sealed.*

NEWTON. 8th April 1859.

884. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in telegraphing and in telegraphic apparatus."—*A communication from abroad by Mr. A. Wilson, of New York, in the United States of America.* *Letters Patent sealed.*

HANDCOCK. 8th April 1859.

885. ELIAS ROBISON HANDCOCK, of No. 23, Norfolk Street, Strand, in the County of Middlesex, Esquire, for an invention for—"Improvements in steam and other motive-power engines." *Letters Patent sealed.*

SPENCER. 9th April 1859.

886. THOMAS SPENCER, of No. 192, Euston Road, Euston Square, London, Analytical and Consulting Chemist, for an invention for—"Improvements in the economical treatment of refuse or waste matter containing sulphur." *Letters Patent sealed; specification filed by order.*

HUGHES. 9th April 1859.

887. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in the manufacture of woven fabrics."—*A communication from abroad by Edward Davies, of Boras, in the Kingdom of Sweden.* *Provisional protection only.*

BARNETT. SOURBUTS. LOYND. 9th April 1859.

888. THOMAS BARNETT, of Oldham, in the County of Lancaster, HENRY TURNER SOURBUTS, and WILLIAM LOYND, of Hyde, in the County of Chester, Engineers, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

YOUNG. 9th April 1859.

889. JAMES HADDEN YOUNG, of 66, Great College Street, Camden Town, London, County of Middlesex, for an invention for—"Improvements in setting up (composing) and distributing types." *Letters Patent sealed.*

HAWKINS. 9th April 1859.

890. JOHN HAWKINS, of Lisle Street, London, in the County of Middlesex, and of Walsall, in the County of Stafford, Bit, Spur, and Stirrup Manufacturer, for an invention for—"Certain improvements in the manufacture of stirrups, bits, spurs, buckles, and other such like articles connected with harness and saddlery." *Letters Patent sealed.*

JOHNSON. 9th April 1859.

891. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or production of the ferro-cyanide and cyanide of potassium."—*A communication from abroad by Jean Victor Lucas, of Paris, in the French Empire, Chemist.* *Letters Patent sealed.*

DERHAM. 9th April 1859.

892. RICHARD JONES DERHAM, of No. 46, Redcliffe Street, Bristol, in the County of Somerset, Cooper, for an invention for—"Improvements in cheese vats." *Provisional protection only.*

MARTIN. 9th April 1859.

893. JOHN MARTIN, of No. 4, Buckingham Street, Islington, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the materials used in the manufacture of bonnet fronts and ruches." *Letters Patent sealed.*

VASSEROT. 9th April 1859.

894. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an inventon for—"A new motive-power applicable to tanneries."—*A communication from Jean Pascal Lucet, residing at Fontenay-le-Comte (Vendée), in the Empire of France.* *Provisional protection only.*

NEWTON. 9th April 1859.

895. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in steam engines and boilers."—*A communication from abroad by Ernest Georges Xavier Boileau, of Paris, in the Empire of France.* *Letters Patent sealed.*

GARDNER. 9th April 1859.

896. HENRY FRANCIS GARDNER, of Boston, in the United States of America, for an invention for—"Improvements in machinery for blocking or crimping the uppers of boots and shoes, and in treeing boots."—*Partly a communication from abroad by William Willmott and Philander Shaw, of the United States of America.* *Letters Patent sealed.*

BROWN. 9th April 1859.

897. ROBERT BROWN, of No. 5, Saint Paul's Churchyard, in the City of London, for an invention for—"Improvements in stoves and apparatus for warming and ventilating apartments and buildings." *Provisional protection only.*

BAUGH. 11th April 1859.

898. BENJAMIN BAUGH, Manager of Thomas Clutton Salt's Enamel Works, Bradford Street, Birmingham, in the County of Warwick, for an invention for—"Certain improved arrangements for working fly presses by steam, water, or other power." *Provisional protection only.*

WAPPENSTEIN. 11th April 1859.

899. RUDOLPH WAPPENSTEIN, of the City of Manchester, in the County of Lancaster, Medallion Engraver, for an invention for—"Improvements in cop tubes, and in machinery or apparatus for placing the same on the spindles used for spinning and doubling fibrous materials." *Letters Patent sealed.*

SCHOFIELD. 11th April 1859.

900. WILLIAM SCHOFIELD, of 13, Thomas Street, Stamford Street, Blackfriars Road, London, Mineral Water Manufacturer, for an invention for—"An improved effervescing lemonade." *Provisional protection only.*

ANDERSON. 11th April 1859.

901. JAMES ANDERSON, of Liverpool, Lancashire, for an invention for—"Improvements in the construction of the furnaces of bakers' ovens for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces." *Provisional protection only.*

BOALER. 11th April 1859.

902. WILLIAM BOALER, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Certain improvements in the manufacture of soap."—*Partly a communication from abroad by Allan Hay, resident at New York, U.S.A.* *Provisional protection only.*

WIMMER. 11th April 1859.

903. LEOPOLD WIMMER, of Vienna, in the Empire of Austria, Master Baker, for an invention for—"An improved preparation for killing beetles." *Provisional protection only.*

BOWER. 11th April 1859.

904. ALFRED BOWER, of Liverpool, in the County of Lancaster, Cotton Broker, for an invention for—"Improvements in or applicable to the keels of navigable vessels." *Provisional protection only.*

ROWAN. 11th April 1859.

905. WILLIAM ROWAN, of the firm of John Rowan & Sons, of Belfast, in the County of Antrim, Engineers, for an invention for—"Improvements in spinning flax, hemp, and other fibrous materials." *Letters Patent sealed.*

BROOMAN. 11th April 1859.

906. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in candle moulds."—*A communication from Auguste Godchaux, residing at Paris.* *Letters Patent sealed.*

CLARK. 11th April 1859.

907. WILLIAM SOUTHERN CLARK, of Aberdare, in the County of Glamorgan, Mining Engineer, for an invention for—"Improved means of loading ships or vessels with coal, and of separating or removing small coal therefrom." *Letters Patent sealed.*

BARLOW. 11th April 1859.

908. WILLIAM HENRY BARLOW, of Great George Street, Westminster, for an invention for—"Improvements in beams and girders." *Letters Patent sealed.*

MARLAND. 11th April 1859.

909. JOHN MARLAND, of Southport, in the County of Lancaster, for an invention for—"An improvement in the manufacture of cop tubes." *Letters Patent sealed.*

CLARK. 12th April 1859.
910. WILLIAM CLARK, of Langhaugh, Galashiels, Scotland, a Lieutenant in Her Majesty's Navy, for an invention for—"An improved safety block to be used for lowering ships' boats, the same being applicable to other like or analogous purposes." *Letters Patent sealed.*

DOIG. 12th April 1859.
911. DAVID DOIG, of the City of Manchester, Engineer, for an invention for—"Improvements in the construction of gas lamps."—*A communication from abroad by William Gilbert Ginty, of Rio de Janeiro, in the Empire of Brazil.* *Letters Patent sealed.*

AITCHISON. 12th April 1859.
912. PATRICK AITCHISON, Brass Founder, of Sheffield, in the County of York, for an invention for—"Improvements in taps." *Letters Patent sealed.*

JOHNSTON. 12th April 1859.
913. GEORGE JOSEPH JOHNSTON, of Ashley, in the County of Cambridge, Machinist, for an invention for—"Improvements in drills for drilling of corn, seeds, and manure." *Provisional protection only.*

NOUALHIER. 12th April 1859.
914. EUGÈNE THÉODORE NOUALHIER, of Paris, France, Manufacturer, for an invention for—"An improved ventilator." *Provisional protection only.*

NEWTON. 12th April 1859.
915. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of iron."—*A communication from abroad by William Kelly, of Pittsburgh, in the United States of America.* *Provisional protection only.*

HILL. MOORE. 12th April 1859.
916. PHILIP HILL, of Manchester, in the County of Lancaster, Weaver, and JOHN MOORE, of Salford, in the same County, Small Ware Manufacturer, for an invention for—"Improvements in weaving double pile fabrics." *Letters Patent sealed.*

BURRELL. 12th April 1859.
917. CHARLES BURRELL, of Thetford, in the County of Norfolk, Engineer, for an invention for—"Improvements in apparatus for screening corn and seeds." *Provisional protection only.*

CASTAY. 12th April 1859.
918. MATHIEU CASTAY, of Paris, in the Empire of France, Clergyman, for an invention for—"Improvements in metallic bridges." *Letters Patent sealed.*

CROSSDALE. 12th April 1859.
919. JAMES CROSSDALE, of Rotherfield Street, Lower Islington, in the County of Middlesex, Boot and Shoe Maker, for an invention for—"Certain improvements in boots and shoes." *Letters Patent sealed.*

WARD. 12th April 1859.
920. JOSEPH WARD, of King's Norton, in the County of Worcester, Machinist, for an invention for—"An improvement or improvements in working fly presses used for raising metals, coining, and other like purposes." *Provisional protection only.*

BROOMAN. 12th April 1859.
921. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the preparation of red dyes."—*A communication from abroad by Messrs. Renard, Frères, of Lyons.* *Letters Patent sealed.*

TATTON. 12th April 1859.
922. SAMUEL TATTON, of Leek, in the County of Stafford, Silk Dyer, for an invention for—"Improvements in preparing and treating silk and improvements in dyeing silk." *Letters Patent sealed.*

EMERY. 13th April 1859.
923. RICHARD EMERY, of No. 6, King Street, St. James's Square, in the City of Westminster and County of Middlesex, Gentleman, for an invention for—"Certain improvements in carriages for common roads." *Letters Patent sealed.*

MARTIN. PURDIE. 13th April 1859.
924. WILLIAM ARENA MARTIN, and JAMES PURDIE, of Woolwich, in the County of Kent, Engineers, for an invention for—"Improvements in fire-bars." *Letters Patent sealed and specification filed by order.*

ECKHORN. 13th April 1859.
925. HEINRICH ECKHORN, of No. 24, Cranbourne Street, Leicester Square, in the County of Middlesex, and of Bieberich, in the Duchy of Nassau, Manufacturer of Lamps, for an invention for—"Improving and regulating the production of light in lamps, to which he gives the name of 'Universal lamp regulator.'" *Provisional protection only.*

COLEMAN. 13th April 1859.
926. RICHARD COLEMAN, of Chelmsford, in the County of Essex, Agricultural Implement Manufacturer, for an invention for—"Improvements in agricultural implements." *Letters Patent sealed.*

APPERLY. CLISSOLD. 13th April 1859.

927. JAMES APPERLY, Cloth Manufacturer, & WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"An improved construction of fulling machine." *Provisional protection only.*

CRAFT. WILSON. 13th April 1859.

928. WILLIAM CRAFT, of No. 12, Cambridge Road, Hammersmith, and THOMAS WILSON, of Bradmore House, Chiswick, both in the County of Middlesex, for an invention for—"Improvements in the manufacture of pinafores and bibs for children." *Letters Patent sealed.*

JOHNSON. 13th April 1859.

929. ALFRED RICHARD JOHNSON, of Saint John's Wood, in the County of Middlesex, Gentleman, for an invention for—"An instrument for damping, severing, and affixing postage and other like stamps." *Letters Patent sealed.*

COFFEY. 13th April 1859.

930. JOHN AMBROSE COFFEY, of 4, Providence Row, Finsbury, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for heating liquids." *Letters Patent sealed.*

GILBEE. 13th April 1859.

931. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the construction of the axles of railway and other carriages."—*A communication from abroad by M. Tenting, aîné, of Paris, France.* *Provisional protection only.*

STEVENS. 13th April 1859.

932. JOHN LEE STEVENS, of No. 1, Fish Street Hill, in the City of London, Civil Engineer, for an invention for—"Improvements in the fire grates of locomotive, marine and other furnaces." *Letters Patent sealed.*

HUGHES. WILLIAMS. LEYSHON. 13th April 1859.

933. JOHN HUGHES, WILLIAM WILLIAMS, and GEORGE LEYSHON, of Brockmoor Works, Brierly Hill, Staffordshire, for an invention for—"Improvements in the manufacture of tin and terne plates." *Letters Patent sealed.*

GILLETT. 14th April 1859.

934. JOHN GILLETT, of Upper Brailes, in the County of Warwickshire, Agricultural Implement Maker, for an invention for—"An improved mill used for grinding, crushing, and reducing bones and other mineral and vegetable substances." *Letters Patent sealed.*

LUIS. 14th April 1859.

935. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new cooling apparatus for liquids, especially beer."—*A communication from abroad by Jean Louis Baudelot, of No. 10, Rue Mogador, Paris, in the Empire of France.* *Complete specification; Letters-Patent sealed.*

BIRD. 14th April 1859.

936. THOMAS BIRD, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the application and use of a certain natural product or products in the manufacture of pickers for looms, drawing rollers for spinning machinery, cop tubes, and for steps and bushes generally where lubrication is required." *Letters Patent sealed.*

COULTHARD. JORDAN. 14th April 1859.

937. HIRAM CRAVEN COULTHARD, Engineer, and JAMES JORDAN, Pattern Maker, both of Blackburn, in the County of Lancaster, for an invention for—"Certain improvements in steam engines." *Provisional protection only.*

BEATTIE. 14th April 1859.

938. JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in the means of preventing locomotive engines and carriages in motion on railways leaving or running off the rails." *Letters Patent sealed.*

PARTRIDGE. 14th April 1859.

939. EBENEZER PARTRIDGE, of Stourbridge, in the County of Worcester, Engineer and Iron Founder, for an invention for—"An improvement in the manufacture of 'pipe' boxes for cart and wagon axles." *Letters Patent sealed.*

BARNES. PICKERING. ROBERTS. 14th April 1859.

940. WILLIAM BARNES, and SAMUEL PICKERING, both of 127, Brick Lane, Spitalfields, and JOHN ROBERTS, of William Street, Limehouse, all in the County of Middlesex, for an invention for—"Improvements in retarding and stopping railway locomotives and trains." *Provisional protection only.*

DOWLING. 14th April 1859.

941. EDWARD DOWLING, of Little Queen Street, Holborn, in the County of Middlesex, Scale Maker, for an invention for—"Improvements in parts of scales or weighing-machines and in balance weights used for those articles, which are also applicable for other purposes." *Provisional protection only*

SINNOCK.
14th April 1859.

942. WILLIAM SINNOCK, of Brompton, in the County of Kent, Ropery Engineer, for an invention for — "Improvements in submarine and subterranean electric telegraph cables and in machinery for the manufacture thereof."
Letters Patent sealed.

M°DOUGALL.
14th April 1859.

943. ALEXANDER M°DOUGALL, of Manchester, in the County of Lancaster, Chemist, for an invention for—"Impovements in coating metallic surfaces."
Letters Patent sealed.

HIGHAM.
14th April 1859.

944. LINDLEY JOHN HIGHAM, of New York, in the United States of America, Gentleman, now residing at Edmund Place, in the City of London, for an invention for—"Improvements in billiard tables." *Provisional protection only.*

BARNWELL.
ROLLASON.
14th April 1859.

945. STEPHEN BARNWELL, of Coventry, in the County of Warwick, Manufacturer, and ALEXANDER ROLLASON, of Birmingham, in the same County, Chemist, for an invention for—"Improvements in the manufacture of umbrellas, parasols, hats, or hat covers, caps, capes, coats, mantles, dresses, gloves, and other similar articles." *Letters Patent sealed.*

ABEILLOU.
15th April 1859.

946. GERMAIN ABEILLOU, of Toulouse, a Town of France, Joiners' Tool Manufacturer, for an invention for—"An extensible arching plane."
Letters Patent sealed.

GILBEE.
15th April 1859.

947. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the construction of buffers for railway and other carriages, also applicable to other purposes where springs are employed."—*A communication from abroad by M. Tenting, ainé, of Paris, France.*
Provisional protection only.

CHAPMAN.
15th April 1859.

948. JOHN CHAPMAN, of Wolverhampton, in the County of Stafford, Iron Master, for an invention for—"An improvement or improvements in the manufacture of angle iron." *Letters Patent sealed.*

ASHCROFT.
15th April 1859.

949. GEORGE ASHCROFT, of Cardiff, in the County of Glamorgan, Engineer, for an invention for—"Improvements in working presses and other hydraulic machines."
Letters Patent sealed.

BOOT.
15th April 1859.

950. ROBERT BOOT, of Hill Street, in the County of Surrey, Leather Dresser, for an invention for—"Improvements in treating sheep or other pelts so as to give them the appearance of rough calf." *Provisional protection only.*

SILVER.
15th April 1859.

951. HUGH ADAMS SILVER, of Cornhill & Bishopsgate Street Within, in the City of London, and Silver Town, in the County of Essex, India-rubber Manufacturer, for an invention for—"Improvements in insulating wire for electric telegraphs."
Letters Patent sealed.

BARROW.
16th April 1859.

952. HENRY BARROW, of Birmingham, in the County of Warwick, Saddler, for an invention for—"A new or improved fastening for fastening trunks, boxes, and articles of dress, and for such other purposes as the same is or may be applicable to."
Letters Patent sealed.

WHITE.
16th April 1859.

953. THOMAS WHITE, of Edgbaston, near Birmingham, in the County of Warwick, Managing Clerk, for an invention for—"An improvement or improvements in frames or stands for holding liquor bottles, pickle jars, cruets and castors, and for holding bottles and vessels generally." *Provisional protection only.*

GLASGOW.
HAND.
16th April 1859.

954. JOHN GLASGOW and SAMUEL HAND, of the City of Manchester, in the County of Lancaster, for an invention for—"An improved variable circular motion applicable to slotting, shaping, and planing machines or similar purposes."
Letters Patent sealed.

COLLIER.
16th April 1859.

955. LUKE COLLIER, of Rochdale, in the County of Lancaster, Machine Maker for Confectionary, for an invention for—"An improved feeding apparatus applicable to grain, loaf sugar, drugs or other similar materials." *Provisional protection only.*

CLARK.
16th April 1859.

956. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in apparatus for separating metals from their ores and other matters."—*A communication from abroad by Henri François Toussaint, Chemist, and Louis Napoleon Langlois, Civil Engineer, both of Paris.* *Letters Patent sealed.*

NEWTON. 16th April 1859.

957. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of alumina."—*A communication from abroad by Mr. Le Chatelier, of Paris.* *Letters Patent sealed.*

HAMILTON. 16th April 1859.

958. JOHN HAMILTON, of No. 8, Exchange Square, Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in apparatus for regulating prime movers driven by water." *Letters Patent sealed.*

COURAGE. 16th April 1859.

959. ALFRED COURAGE, of Bagillt, in the County of Flint, Smelter, for an invention for—"An improved method of obtaining the metallic particles contained in fumes or vapours from lead and other smelting works." *Letters Patent sealed.*

HARRISON. 16th April 1859.

960. HENRY HARRISON, of the firm of Joseph Harrison and Sons, of Blackburn, in the County of Lancaster, Machine Makers, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

SIDEBOTTOM. 16th April 1859.

961. JOHN SIDEBOTTOM, of Broadbottom, near Mottram, in the County of Chester, Cotton Spinner and Manufacturer, for an invention for—"Improvements in the construction of tubes and partial tubes, and in the machinery or apparatus for placing them on the spindles of machines used in spinning, doubling, winding, and warping, also improvements in machinery for making such tubes and partial tubes." *Letters Patent sealed.*

VIVIAN. 16th April 1859.

962. HENRY HUSSEY VIVIAN, of Swansea, M.P., for an invention for—"Improvements in smelting copper." *Letters Patent sealed; no specification filed.*

KENWARD. 16th April 1859.

963. NELSON KENWARD, of Sutton, in the County of Surrey, for an invention for—"Improvements in machinery for obtaining motive power by fluids." *Provisional protection only.*

CORNISH. 16th April 1859.

964. GEORGE BISHOP CORNISH, of New York, in the United States of America, Master Mariner, for an invention for—"Improvements applicable to fog-horns. *Provisional protection only.*

WALKER. 16th April 1859.

965. WILLIAM WALKER, of Liverpool, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in rocket guns."—*A communication from Bridge Town, in the Island of Barbados, by Thomas Welcome Roys, of the Town of Southampton, Long Island, in the State of New York, one of the United States of America, Master Mariner, a Citizen of the United States of America.* *Provisional protection only.*

MOULE. 16th April 1859.

966. JOHN MOULE, of Seabright Place, Hackney Road, in the County of Middlesex, for an invention for—"A new compound liquid for illuminating purposes." *Provisional protection only.*

LUIS. 18th April 1859.

967. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"An improved machine for raising water."—*A communication from abroad by M. Dupré, of No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

WARRY. 18th April 1859.

968. ROBERT WARRY, Armourer Serjeant, of the 3rd Depôt Battalion, Chatham, for an invention for—"Improvements in breech-loading ordnance and its projectiles." *Provisional protection only.*

PROSSER. 18th April 1859.

969. WILLIAM PROSSER, of No. 24, Dorset Place, Dorset Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus employed in the production of light." *Provisional protection only.*

PORTER. 18th April 1859.

970. GEORGE PORTER, of the City of London, Smith and Gas Fitter, for an invention for—"Improvements in valves or cocks." *Provisional protection only.*

WHITAKER. 18th April 1859.

971. JOHN WHITAKER, of Bedford Mill Iron Works, near Leigh, in the County of Lancaster, Agricultural Machine Maker, for—"Improvements in mowing machines." *Letters Patent sealed.*

SEAMAN. 18th April 1859.

972. JOSEPH SEAMAN, of Linslade, in the County of Buckingham, Engineer, for an invention for—"Improvements in agricultural implements for working or cultivating the soil." *Letters Patent sealed.*

MENNONS. 18th April 1859.

973. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for —"An improved disinfecting compound."—*A communication from W. E. Lijnen, a person resident at Marseilles (France).* *Provisional protection only.*

WILSON. 18th April 1859.

974. JOHN CRAWFORD WILSON, of Wood Street, in the City of London, Warehouseman, for an invention for—"A reversible shawl cloak." *Provisional protection only.*

IZOD. 18th April 1859.

975. JOSEPH IZOD, of No. 58, High Street, Hoxton, in the County of Middlesex, Wholesale Dealer in Tobacconists' Fancy Goods, for an invention for—"A safety cigar, vesuvian, or fusee box or case." *Provisional protection only.*

GEDGE. 18th April 1859.

976. WILLIAM EDWARD GEDGE, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved safety apparatus for clearing off condensed steam from steam engines."—*A communication from abroad by Augustin Morel, of Roubaix, in the Empire of France.* *Provisional protection only.*

FREER. 18th April 1859.

977. JOHN FREER, of Rothley, in the County of Leicester, Agricultural Implement Maker, for an invention for—"Improvements in machines for planting grain and seed, and an improved seed feeder and meter for planting machines." *Letters Patent sealed.*

MORTON. MORTON. 18th April 1859.

978. JOSEPH MORTON, and HENRY SHAW MORTON, trading under the style or firm of Morton and Son, of Sheffield, in the County of York, Stove Grate Manufacturers, for an invention for—"Improvements in hearth-plates or ash-pans." *Provisional protection only.*

DALRYMPLE. 18th April 1859.

979. ALEXANDER DALRYMPLE, of Sheffield, in the County of York, Tailor, for an invention for—"Improvements in the mode of covering crinoline, and in machines used in connection therewith." *Provisional protection only.*

COLLER. 18th April 1859.

980. GEORGE COLLER, of Harlow, in the County of Essex, for an invention for —"An improved mowing-machine." *Provisional protection only.*

EDWARDS. EDWARDS. 18th April 1859.

981. FREDERICK EDWARDS, & WILLIAM EDWARDS, of the City of Coventry, Machinists, for an invention for—"Improvements in looms for weaving ribbons and other like goods." *Letters Patent sealed.*

PARSONS. 18th April 1859.

982. WILLIAM PARSONS, of Pont-ar-Tawe, near Swansea, in the County of Glamorgan, Tin Plate Manufacturer, for an invention for—"Improvements in preparing sheet iron and other metal sheets for japanners and other uses." *Letters Patent sealed.*

BOYDELL. 18th April 1859.

983. JAMES BOYDELL, of Gloucester Crescent, Regent's Park, for an invention for—"Improvements in the apparatus applied to the wheels of locomotive, traction, and other carriages, to facilitate the draught." *Provisional protection only.*

GOSLING. 19th April 1859.

984. WILLIAM GOSLING, Architect, Civil Engineer and Surveyor, of 82, Wellington Street, Woolwich, Kent, for an invention for—"Improving rifle cannon and projectiles." *Provisional protection only.*

REYNOLDS. REYNOLDS. 19th April 1859.

985. PETER REYNOLDS, of Belfast, in the County of Antrim, Ireland, and JAMES REYNOLDS, of the same place, Engineers and Machinists, for an invention for—"Improvements in machinery or apparatus for hackling flax and other fibrous materials." *Letters Patent sealed.*

BATTY. 19th April 1859.

986. CHRISTOPHER BATTY, of Manchester, in the County of Lancaster, Collector, for an invention for—"An improved means or apparatus for effecting instantaneous communication on railways between passengers and officials." *Letters Patent sealed.*

DUTTON. MARTIN. PHILLIPS. 19th April 1859.

987. ISAAC DUTTON, of Tipton, in the County of Stafford, Whitesmith, and ROBERT MARTIN, of Dudley, in the County of Worcester, Coke Merchant, and THOMAS PHILLIPS, of Dudley, aforesaid, Coke Merchant, for an invention for—"New or improved machinery for preventing accidents in coal or other mines by the drawing of skips or cages over their pulleys." *Letters Patent sealed.*

WILLIAMSON. 19th April 1859.

988. ALEXANDER WILLIAM WILLIAMSON, of University College, London, for an invention for—"Improvements in making extracts from liquorice root." *Complete specification; Letters Patent sealed.*

MAGGS.
19th April 1859.

989. OLIVER MAGGS, of Bourton, in the County of Dorset, for an invention for—"Improvements in cheese presses." *Provisional protection only.*

MATTHEWS.
19th April 1859.

990. JOHN WILLIAM MATTHEWS, of High Street, Poplar, in the County of Middlesex, Hat Manufacturer, for an invention for—"An improvement in the manufacture of hats and other coverings for the head." *Provisional protection only.*

NEWTON.
19th April 1859.

991. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for weaving seamless bags or other articles with hemispherical or regular or irregular ends or forms."—*A communication from abroad by John Pender, of the United States of America.* *Letters Patent sealed.*

BECK.
20th April 1859.

992. QUIN BECK, of the firm of James Meharg & Co., of Belfast, in the County of Antrim, Manufacturers, for an invention for—"Improvements in stoves."—*A communication from abroad by James Cherry, of Vermont, U.S.* *Letters Patent sealed.*

WOTTON.
20th April 1859.

993. JOB WOTTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in raising or shaping metals." *Letters Patent sealed.*

JOHNSON.
JOHNSON.
20th April 1859.

994. JOHN MORRIS JOHNSON, and EDMUND JOHNSON, of Castle Street, Holborn, for an invention for—"Improvements in the production of ornamental surfaces suitable for advertisement tablets, plates for shop fronts, and for other uses." *Letters Patent sealed.*

WILLIAMSON.
20th April 1859.

995. ALEXANDER WILLIAM WILLIAMSON, of University College, for an invention for—"Improvements in obtaining extracts from the liquorice root." *Letters Patent sealed.*

RAWSON.
20th April 1859.

996. HENRY RAWSON, of Leicester, for an invention for—"Improvements in machinery for combing wool and other fibres." *Letters Patent sealed.*

PORTER.
20th April 1859.

997. LUCIUS PHELPS PORTER, of New York, for an invention for—"Improvements in knitting-machinery."—*A communication from abroad by Joseph R. Kilbourn and Edward E. Kilbourn, of Norfolk, in the County of Litchfield, and State of Connecticut.* *Complete specification; Letters Patent sealed.*

APPERLY.
CLISSOLD.
20th April 1859.

998. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improved apparatus for oiling wool." *Provisional protection only.*

VANHULST.
21st April 1859.

999. ANDRÉ FELIX VANHULST, of Brussels, in the Kingdom of Belgium, for an invention for—"An improved kiln for drying malt." *Provisional protection only.*

COTTAM.
21st April 1859.

1000. EDWARD COTTAM, of Pimlico, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus employed for cutting or sawing metals and other substances." *Provisional protection only*

DAWSON.
AVERY.
21st April 1859.

1001. THOMAS DAWSON, and JOHN AVERY, of 32, Essex Street, in the County of Middlesex, for an invention for—"Improvements in pencil-cases, watch seals and keys, toothpicks, and other like articles of jewellery, lockets, pen-knife handles, porte-monnaies, and other like articles." *Provisional protection only.*

NAPIER.
21st April 1859.

1002. JAMES NAPIER, Gentleman, Partick, near Glasgow, in the County of Lanark, Scotland, for an invention for—"Improvements in producing figures or representations upon glass." *Letters Patent sealed.*

ALISON.
21st April 1859.

1003. JOHN ALISON, of Hainault Forest, Essex, Gentleman, for an invention for—"An improved instrument for extirpating thistles, docks, and other deep-rooted weeds." *Letters Patent sealed.*

DAVIES.
21st April 1859.

1004. JOHN DAVIES, of Tetbury, in the County of Gloucester, Machinist, for an invention for—"A new or improved apparatus for ringing door bells, and a bolt to be used with the said apparatus, and for other purposes to which the said bolt is or may be applicable." *Letters Patent sealed.*

AULD.
21st April 1859.

1005. DAVID AULD, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for supplying steam-boilers with water." *Letters Patent sealed.*

BROOMAN. 21st April 1859.

1006. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine and Patent Agent, for an invention for—"Improvements in knitting-frames."—*A communication from abroad by Madame Henriette Louise Armande Hammerlin, of Paris.* *Provisional protection only.*

LEWTHWAITE. AMBLER. 21st April 1859.

1007. EDWIN LEWTHWAITE, of Halifax, in the County of York, Clock and Watch Maker, and GEORGE AMBLER, of Queenshead, near Halifax aforesaid, Clock and Watch Maker, for an invention for—"Improvements in clocks, watches, chronometers, and other time-keepers." *Letters Patent sealed.*

CLARK. 21st April 1859.

1008. EDWARD CLARK, of New York, in the United States of America, but now of Morley's Hotel, in the City of Westminster, Gentleman, for an invention for—"Improvements in sewing-machinery." — *A communication from abroad by Isaac Merritt Singer, of New York aforesaid.* *Letters Patent sealed.*

ROBERTS. BRIDGES. 21st April 1859.

1009. GEORGE ROBERTS, and JOHN BRIDGES, of No. 20, Ponsonby Place, Vauxhall Bridge Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of candles." *Letters Patent sealed.*

TRUSS. 21st April 1859.

1010. THOMAS SEAVILLE TRUSS, of Darlington, in the County of Durham, Civil Engineer, for an invention for—"Improvements in the construction of pipes, and in the mode of joining the same." *Letters Patent sealed.*

PEPPER. 21st April 1859.

1011. JOHN HENRY PEPPER, of Morton House, Kilburn Priory, in the County of Middlesex, for an invention for—"Improvements in apparatus for shewing stereoscopic pictures." *Provisional protection only.*

KEACH. FARRINGTON. 23rd April 1859.

1012. HENRY KEACH, and GEORGE HENRY FARRINGTON, of Bush Lane, in the City of London, Wholesale Stationers, for an invention for—"Improved advertising circulars." *Provisional protection only.*

GRAY. 23rd April 1859.

1013. ROBERT GRAY, of Sheffield, in the County of York, Crinoline Manufacturer, for an invention for—"Improvements in crinoline skirts."—*A communication from abroad by Jonathan Hobson, of New York, in the United States of America.* *Provisional protection only.*

MANSEL. 23rd April 1859.

1014. CHARLOTTE MANSEL, of Plymouth, in the County of Devon, for an invention for—"A folding travelling case." *Letters Patent sealed.*

EDWARDS. 23rd April 1859.

1015. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of buttons." *Provisional protection only.*

ARMSTRONG. 23rd April 1859.

1016. JOHN ARMSTRONG, of Sunderland, in the County of Durham, Timber Merchant, for an invention for—"Improvements in drying and preserving timber." *Letters Patent sealed; no specification filed.*

GILLIES. 23rd April 1859.

1017. JAMES GILLIES, of Glasgow, in the County of Lanark, North Britain, Wood Turner, for an invention for—"Improvements in branding or marking wood for casks, barrels, and other purposes." *Letters Patent sealed*

ANGUS. 23rd April 1859.

1018. JOHN ANGUS, of Glasgow, in the County of Lanark, North Britain, Sadlers' Ironmonger, for an invention for—"Improvements in saddles." *Letters Patent sealed.*

DICKS. HOPWELL. 23rd April 1859.

1019. WILLIAM DICKS, of Leicester, Boot Manufacturer, and WILLIAM HOPWELL, also of Leicester, Machinist, for an invention for—"Improvements in machinery for making screws and applying them in fixing the soles of boots and shoes." *Letters Patent sealed.*

DEBAIN. 23rd April 1859.

1020. PIERRE LEONARD MARC DEBAIN, of Paris (France), Gentleman, for an invention for—"Improved means for transmitting motive-power to ships' pumps and other arrangements by which the displacement of fluids is effectuated." *Provisional protection only.*

MUTEL. BLANCHARD. 23rd April 1859.

1021. PIERRE FRANÇOIS MUTEL, Gas-burner Maker, and LUCIEN HENRI BLANCHARD, Gentleman, both of Paris, France, for an invention for—"Improvements in gas-burners." *Provisional protection only.*

DEBAIN. 23rd April 1859.

1022. PIERRE LEONARD MARC DEBAIN, of Paris (France), Gentleman, for an invention for—"Improvements in making heat subservient for producing motive-power." *Provisional protection only.*

GIBSON. 23rd April 1859. 1023. WILLIAM GIBSON, of St. Leonard's Road in the County of Middlesex, Engineer, for an invention for—"Improvements in steering apparatus." *Letters Patent sealed.*

BROOMAN. 23rd April 1859. 1024. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in the manufacture of woollen cloth."—*A communication from Louis Victor Lemaignen, residing at Lisieux, France.* *Letters Patent sealed.*

MARSHALL. 23rd April 1859. 1025. JOHN MARSHALL, Junior, of Selby, in the County of York, Gentleman, for an invention for—"Improvements in filtering and depurating fluids." *Letters Patent sealed.*

MOXON. BENNETT. 23rd April 1859. 1026. WILLIAM MOXON, of Parliament Street, in the City of Westminster, Contractor, and JOSEPH JEFFREY BENNETT, of Homer Terrace, Victoria Park, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for raising or lifting and lowering heavy bodies." *Letters Patent sealed.*

MAGUIRE. 23rd April 1859. 1027. FREDERICK COLWELL MAGUIRE, of Stamford, in the County of Lincoln, Gentleman, for an invention for—"Certain improvements in the utilization of sewage manure." *Provisional protection only.*

STEVENSON. 25th April 1859. 1028. WILLIAM STEVENSON, of Johnstone, in the County of Renfrew, North Britain, Manager to George Houstoun and Company, for an invention for—"Improvements in spinning, doubling, and manufacturing cotton and other fibrous materials." *Letters Patent sealed.*

BALFERN. M'KAY. 25th April 1859. 1029. WILLIAM POOL BALFERN, and MURDOCH M'KAY, both of Hammersmith, County of Middlesex, Soap Manufacturers, for an invention for—"The manufacture of sweet figged soft soap." *Provisional protection only.*

HIGGIN. 25th April 1859. 1030. JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in treating madder and plants of the same family and preparations therefrom." *Letters Patent sealed.*

WARD. 25th April 1859. 1031. GEORGE WARD, of Blackburn, in the County of Lancaster, Gold Patent Thread Manufacturer, for an invention for—"Improvements in machinery or apparatus for making healds." *Letters Patent sealed.*

OWEN. DUCKWORTH. 25th April 1859. 1032. JOHN OWEN, Designer, and HINDLE DUCKWORTH, Manager, of Blackburn, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for leasing yarns." *Provisional protection only.*

WESTON. 25th April 1859. 1033. THOMAS ALDRIDGE WESTON, of King's Norton, in the County of Worcester, Accountant, for an invention for—"A new or improved pulley." *Letters Patent sealed.*

BUCKHAM. 25th April 1859. 1034. THOMAS BUCKHAM, of Gloucester, in the County of Gloucester, Civil Engineer, for an invention for—"An improvement in railway switches." *Provisional protection only.*

HOLMES. 25th April 1859. 1035. JAMES HOLMES, of Street, Somerset, Accountant, for an invention for—"Improvements in applying eyelet holes to boots and shoes, and in binding boots and shoes." *Letters Patent sealed.*

GADESDEN. 25th April 1859. 1036. AUGUSTUS WILLIAM GADESDEN, of 56, Leman Street, Goodman's Fields, for an invention for—"Improvements in producing solutions of sugar." *Letters Patent sealed.*

HUMPHRYS. 25th April 1859. 1037. EDWARD HUMPHRYS, of Deptford, for an invention for—"Improvements in steering-apparatus." *Letters Patent sealed.*

NEWTON. 25th April 1859. 1038. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in sewing-machines."—*A communication from abroad by Robert Halsted Morford and Anthony Denton Morford, of New York.* *Letters Patent sealed.*

HURRY. 25th April 1859. 1039. HENRY COLUMBUS HURRY, of Wolverhampton, in the County of Stafford, Civil Engineer, for an invention for—"Improved means of and apparatus for obtaining motive-power." *Letters Patent sealed and specification filed by order.*

WARNE. FANSHAWE. JAQUES. GALPIN. 25th April 1859.

1040. WILLIAM WARNE, JOHN AMERICUS FANSHAWE, JAMES ARCHIBALD JAQUES, and THOMAS GALPIN, all of Tottenham, in the County of Middlesex, India-rubber Manufacturers, for an invention for—"Improved compounds applicable for packing the joints of steam or other pipes, which compounds are also applicable for packing or lining parts of machinery in general, or parts of ships, bridges, tanks, or railways." *Letters Patent sealed.*

TAYLOR. 25th April 1859.

1041. SAMUEL LAWRENCE TAYLOR, of Cotton End, in the County of Bedford, Agricultural Engineer, for an invention for—"Improvements in agricultural implements, in obtaining motive-power for actuating such implements, and in apparatus connected with the application of steam-power." *Provisional protection only.*

HOLT. BROWN. 26th April 1859.

1042. THOMAS HOLT, of Lower Place, in the Parish of Rochdale, and County of Lancaster, Engineer, and JOHN BROWN, of Oxford Street, Well Field, in the same Parish and County, Agent, for an invention for—"Improvements in apparatus or an improved apparatus for heating water for the supply of steam-boilers, which improvements or apparatus are also applicable in some cases for the prevention of incrustation in steam-boilers." *Letters Patent sealed.*

ALLMAN. 26th April 1859.

1043. HERBERT ALLMAN, of Mornington Place, Hampstead Road, London, Consulting Engineer, for an invention for—"Certain improvements in the construction of window-blind mountings and in apparatus connected therewith." *Letters Patent sealed.*

MACKENZIE. 26th April 1859.

1044. WILLIAM MACKENZIE, Publisher, of Glasgow, County Lanark, Scotland, for an invention for—"An improved method of printing impressions upon an enlarged or reduced scale either from engraved plates, electrotypes, blocks, drawings, or other surfaces." *Letters Patent sealed.*

NEWTON. 26th April 1859.

1045. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of nitric acid and its application for the production of artificial nitrous or nitric salts."—*A communication from abroad by Madame Lefebvre, of Paris, in the Empire of France.* *Letters Patent sealed.*

MAIN. 26th April 1859.

1046. ROBERT MAIN, of Birkenhead, in the County of Chester, Carriage Builder, for an invention for—"Improvements in wheels for carriages." *Letters Patent sealed.*

MARSHALL. 26th April 1859.

1047. WILLIAM MARSHALL, of Leith Walk, in the County of Mid-Lothian, North Britain, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed; no specification filed.*

BROOMAN. 26th April 1859.

1048. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in vulcanizing and coloring caoutchouc and in the preparation of caoutchouc paints and colors."—*A communication from abroad by Theophile Julien Labolle, of Paris. Letters Patent sealed.*

BROOMAN. 26th April 1859.

1049. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in steam-boilers."—*A communication from abroad by Theodore Nicolas Meynier and Louis Albert le Bleu, of Paris.* *Provisional protection only.*

JOHNSON. 26th April 1859.

1050. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for combing wool and other fibrous substances."—*A communication from abroad by Cullen Whipple, of the City and County of Providence, in the State of Rhode Island, United States of America.* *Letters Patent sealed.*

JOHNSON. 26th April 1859.

1051. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for grinding and polishing knives and other articles of cutlery and tools."—*A communication from abroad by James Dodge, of Waterford, Saratoga County, State of New York, United States of America.* *Letters Patent sealed.*

CIROUX. 27th April 1859.

1052. JEAN MARIE CIROUX, of Brussels, in the Kingdom of Belgium, Merchant, for an invention for—"Improvements in lamp glasses and shades applicable to gas-burners, light-houses, and railway signals." *Provisional protection only.*

PEARSON. 27th April 1859.

1053. GEORGE PEARSON, of Bugbrook, near Weedon, in the County of Northampton, Contractor, for an invention for—"Improvements in apparatus for cutting and shaping trenails." *Letters Patent sealed.*

HYDE. 27th April 1859.

1054. JOSEPH HYDE, of Hollingworth, near Mottram, in the County of Chester, Engineer, for an invention for—"Certain improvements in steam boilers." *Provisional protection only.*

FANSHAWE. 27th April 1859.

1055. HENRY RICHARDSON FANSHAWE, late of Messrs. Silver and Company's Works, North Woolwich, now of 13, Russell Place, Old Kent Road, in the County of Surrey, India Rubber Manufacturer, for an invention for—"Improved apparatus or mechanism for drawing off, filtering and guaging liquids in butts, barrels, casks and such like vessels, preserving the contents from deterioration from contact with atmospheric air. *Letters Patent sealed.*

STUART. STUART. 27th April 1859.

1056. JOHN STUART, of Musselburgh, in the County of Mid-Lothian, North Britain, and WILLIAM STUART, of the same place, Manufacturers, for an invention for "Improvements in machinery or apparatus for manufacturing nets for fishing and for other purposes." *Letters Patent sealed.*

SMITH. 27th April 1859.

1057. JAMES RANDAL SMITH, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in obtaining motive power." *Provisional protection only.*

LAING. 27th April 1859.

1058. ROBERT JAMES LAING, of the Independent Gas Works, Haggerstone, in the County of Middlesex, Engineer, for an invention for—"Improvements in wet gas meters." *Letters Patent sealed.*

HAMP. 27th April 1859.

1059. CHARLES HAMP, of Harrow Road, in the County of Middlesex, for an invention for—"Certain improvements in locks." *Provisional protection only.*

HOLROYD. 27th April 1859.

1060. JAMES HOLROYD, of Leeds, in the County of York, Cloth Finisher, for an invention for—"Improvements in machinery used for finishing woollen and other cloths." *Letters Patent sealed.*

LACEY. 27th April 1859.

1061. THOMAS LACEY, of Grafton Street, in the City of Westminster, Gas Engineer, for an invention for—"Improvements in gas regulators." *Letters Patent sealed.*

GRANT. 27th April 1859.

1062. Sir THOMAS TASSELL GRANT, K.C.B., of 20, Chester Terrace, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in ships' cooking apparatus." *Letters Patent sealed.*

GAUNTLEY. 27th April 1859.

1063. THOMAS GAUNTLEY the elder, of the High Pavement, in the Town of Nottingham, Lace Manufacturer, for an invention for—"Improvements in the manufacture of fringes." *Provisional protection only.*

KIDD. 28th April 1859.

1064. JOSHUA KIDD, of Birkenhead, in the County of Chester, Civil Engineer, for an invention for—"Improvements in sewing machines." *Provisional protection only.*

RANDOLPH. ELDER. 28th April 1859.

1065. CHARLES RANDOLPH, and JOHN ELDER, of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in steam-engines and boilers. *Letters Patent sealed.*

JONES. 28th April 1859.

1066. RICHARD JONES, of the New Kent Road, in the County of Surrey, for an invention for—"An improved safety lamp." *Provisional protection only.*

HARRINGTON. 28th April 1859.

1067. ROBERT HARRINGTON, Watch Maker, of No. 3, Collonade, Albany Road, in the Parish of Camberwell, County of Surrey, for an invention for—"Improvements in umbrellas and parasols." *Letters Patent sealed.*

LIBOTTE. 28th April 1859.

1068. NICOLAS LIBOTTE, Mechanician, of 33, Boulevard St. Martin, Paris (Empire of France), for an invention for—"A steam brake for mines which may also be worked by hand." *Letters Patent sealed.*

HOLMES. 28th April 1859.

1069. NATHANIEL JOHN HOLMES, Gentleman, of Glasgow, County Lanark, Scotland, for an invention for—"Improvements in electric telegraphs and apparatus connected therewith." *Letters Patent sealed.*

LARDENOIS. 28th April 1859.

1070. EUGÈNE LARDENOIS, of Brussels, in the Kingdom of Belgium, Merchant, for an invention for—"Improvements in the manufacture of pulp for paper, pasteboard, and other like articles."—*A communication from Bonnet Frederic Brunel, residing in Brussels.* *Letters Patent sealed.*

CLARK.
28th April 1859.

1071. THOMAS CLARK, of Hackney, in the County of Middlesex, Engineer, for an invention for—"Improvements in sheaves or pulleys for paying out and hauling in ropes, chains and cables, for communicating motion to machinery, and for other useful purposes." *Letters Patent sealed.*

WHEAT.
28th April 1859.

1072. JOHN WHEAT, of Hinckley, in the County of Leicester, for an invention for—"Certain improvements in drilling machines employed for agricultural purposes." *Letters Patent sealed.*

TOMPSON.
28th April 1859.

1073. WILLIAM ALONZO TOMPSON, of 18, Cecil Street, Strand, in the County of Middlesex, and Weston Green, Thames Ditton, in the County of Surry, Surgeon and Apothecary, for an invention for—"Improvements in apparatus for applying liquids to the throat and air passages for medical purposes." *Letters Patent sealed.*

BOYLE.
28th April 1859.

1074. ARTHUR BOYLE, of Birmingham, in the County of Warwick, Tool Maker, for an invention for—"Improvements in the manufacture of certain parts of umbrellas and parasols." *Letters Patent sealed.*

CRANSTON.
29th April 1859.

1075. WILLIAM M^cINTYRE CRANSTON, of No. 11, New Broad Street, London, Agent, for an invention for—"A grass cutting machine."—*A communication from abroad by Walter Abbot Wood, of Hoosick Falls, County of Rensselaer, State of New York, America.* *Complete specification; Letters Patent sealed.*

CORBETT.
CARMONT.
29th April 1859.

1076. WILLIAM CORBETT, of Clayton, near Manchester, in the County of Lancaster, and WILLIAM CARMONT, of the same place, Iron and Steel Manufacturers, for an invention for—"Certain improvements in the construction and arrangement of furnaces employed in the manufacture of iron and steel and for other similar purposes." *Letters Patent sealed.*

WELCH.
29th April 1859.

1077. JOHN WELLINGTON WELCH, of Manchester, in the County Lancaster, Warp Sizer, for an invention for—"Improvements in sizing or dressing yarns or threads for weaving." *Letters Patent sealed.*

BOSSHARD.
29th April 1859.

1078. HENRY BOSSHARD, of Paris, in the Empire of France, Engineer, for an invention for—"An improved mechanism for obtaining and imparting motive-power." *Provisional protection only.*

PORTEUS.
BURKE.
29th April 1859.

1079. EDGAR ANDREW PORTEUS, of 18, Warwick Square, Paternoster Row, Engraver and Printer, and WILLIAM HENRY BURKE, of 79, Cannon Street West, Manufacturer, for an invention for—"Improvements in printing and other presses." *Letters Patent sealed.*

DE CAZENAVE.
29th April 1859.

1080. SIMON DE CAZENAVE, of 189, Regent Street, in the County of Middlesex, for an invention for—"An improved lubricating compound." *Provisional protection only.*

SMITH.
29th April 1859.

1081. THOMAS SMITH, of Bredfield, in the County of Suffolk, for an invention for—"Improvements in cultivating implements." *Letters Patent sealed.*

WINSTANLEY.
KELLY.
30th April 1859.

1082. WILLIAM WINSTANLEY, and JOSEPH KELLY, of Liverpool, in the County of Lancaster, Hydraulic Engineers, for an invention for—"Improvements in pumps and gearing and appliances for working the same." *Letters Patent sealed.*

TOUSSAINT.
30th April 1859.

1083. JOSEPH TOUSSAINT, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A new process of modelling and moulding for galvanoplastic." *Letters Patent sealed.*

DARLINGTON.
30th April 1859.

1084. JOHN DARLINGTON, of No. 36, Cannon Street, in the City of London, County of Middlesex, Mining Engineer, for an invention for—"Improvements in zinc retort furnaces." *Letters Patent sealed.*

FRANCIS.
30th April 1859.

1085. EDWARD FRANCIS, of Wrexham, in the County of Denbigh, Grocer, for an invention for—"Improved apparatus applicable to the treatment of tea and other useful purposes. *Letters Patent sealed.*

MORISON.
MORISON.
30th April 1859.

1086. JAMES MORISON, Senior, and JAMES MORISON, Junior, of Paisley, in the County of Renfrew, North Britain, Machine Makers, for an invention for—"Improvements in looms and in apparatus connected therewith." *Provisional protection only.*

CLARK. 30th April 1859.

1087. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Inmprovements in ventilating or supplying air to diving bells and divers, and in holding communication therewith from above."—*A communication from abroad by François Aquilas Laurent, of Paris.* *Letters Patent sealed.*

McKECHNIE. 30th April 1859.

1088. ARCHIBALD McKECHNIE, of Carron, in the County of Stirling, North Britain, Engineer, for an invention for—"Improvements in hammers and in apparatus for working the same." *Provisional protection only.*

BULL. 30th April 1859.

1089. JOSEPH BULL, of Port Street, Manchester, for an invention for—"Improvements in apparatus used for securing bales of cotton and other substances." *Provisional protection only.*

WILLIAMS. 30th April 1859.

1090. CHARLES HANSON GREVILLE WILLIAMS, of 39, Regent Square, Gray's Inn Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of colouring matters and in applying the same for dyeing and printing fabrics and materials." *Letters Patent sealed.*

SOUQUIÈRE. 30th April 1859.

1091. JOSEPH SOUQUIÈRE (called Emile), of 29, Boulevart St. Martin, Paris, in the Empire of France, Civil Engineer, for an invention for—"A new or improved process for distilling coal." *Letters Patent sealed.*

ARROWSMITH. 2nd May 1859.

1092. THOMAS HALL ARROWSMITH, of Bolton, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in carding-engines." *Letters Patent sealed.*

JUMELAIS. 2nd May 1859.

1093. ANGE JUMELAIS, Householder, of the City of Paris, in the Empire of France, for an invention for—"An apparatus yielding illimited power, so called 'French movement.'" *Provisional protection only.*

FERGUSON. McGAVENY. 2nd May 1859.

1094. JAMES FERGUSON, of Kilmarnock, in the County of Ayr, North Britain, Tinsmith and Gas Fitter, and JAMES McGAVENY, of Glasgow, in the County of Lanark, North Britain, Yarn Dresser, for an invention for—"Improvements in fasteners for shutters and for similar uses." *Provisional protection only.*

BAYLISS. 2nd May 1859.

1095. WILLIAM BAYLISS, of the firm of W. and N. Bayliss and Co., Flat and Chain Cable and Iron Hurdle and Fencing Manufacturers, of Monmore Green, Wolverhampton, in the County of Stafford, for an invention for—"Improvements in the manufacture of iron hurdles and fencing. *Letters Patent sealed.*

BROOMAN. 2nd May 1859.

1096. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in and in connection with electro-magnetic engines.—*A communication from abroad by Alexandre Paul Marie Darlu, of Paris.* *Letters Patent sealed.*

BASFORD. 2nd May 1859.

1097. JOHN BASFORD, of the Brickyard, Oundle, in the County of Northampton, for an invention for—"An improvement in the apparatus used when expressing clay or brick earth through dies." *Letters Patent sealed.*

CHILDS. 2nd May 1859.

1098. JAMES CHILDS, of Windsor House, Putney, in the County of Surrey, for an invention for—"Improvements in the manufacture of night light cases." *Letters Patent sealed.*

GOSSAGE. 2nd May 1859.

1099. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture and useful application of certain alkaline silicates, and in the production of liquor silicis or liquid flint." *Provisional protection only.*

MOORE. 2nd May 1859.

1100. DANIEL MOORE, of Brooklyn, in the State of New York, United States of America, for an invention for—"Improvements in machinery for rubbing or dressing types." *Letters Patent sealed.*

GOSSAGE. 2nd May 1859.

1101. WILLAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of caustic soda and carbonate of soda from certain alkaline liquors and salts." *Letters Patent sealed.*

NUTTALL. 2nd May 1859.

1102. CHARLES NUTTALL, of Rochdale, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for grinding wire cards." *Provisional protection only.*

EMERSON. 2nd May 1859.

1103. FREDERICK WILLIAM EMERSON, of 110, Fenchurch Street, in the City of London, for an invention for—"Improvements in treating ores to obtain a new metallic substance and its salts, and in the application of such matters and also certain products of tungsten in dyeing, printing, and painting."

Letters Patent sealed.

FRANKLIN. 3rd May 1859.

1104. ABRAHAM GABAY FRANKLIN, of No. 14, South Street, Finsbury, London, Merchant, for an invention for—"Improvements in the manufacture of crayons."—*A communication from abroad by Mr. Gottliel Wilhelm Sussner, of Nuremberg, in the Kingdom of Bavaria.* *Provisional protection only.*

JOHNSON. 3rd May 1859.

1105. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture or production of mineral oil and grease."—*A communication from François Schutze, residing at Hemixem, near Anvers, in the Kingdom of Belgium.* *Provisional protection only.*

MILLER. 3rd May 1859.

1106. THOMAS WILLIAM MILLER, of Her Majesty's Dock Yard, in the Parish of Portsea, in the County of Southampton, for an invention for—"Improvements in apparatus for and mode of generating steam and economising fuel."

Letters Patent sealed.

CLARK. 3rd May 1859.

1107. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in obtaining or extracting quinine and the principal organic alkalies."—*A communication from abroad by Lalouel de Sourdeval, 22, Rue Bergère, Paris.* *Letters Patent sealed.*

SELLERS. 3rd May 1859.

1108. WILLIAM SELLERS, of Philadelphia, in the State of Pennsylvania, United States of America, Engineer and Machinist, for an invention for—"Improvements in couplings for shafting."—*Partly a communication from Coleman Sellers, resident at Philadelphia aforesaid.* *Provisional protection only.*

SELLERS. 3rd May 1859.

1109. WILLIAM SELLERS, of Philadelphia, in the State of Pennsylvania, United States of America, Engineer and Machinist, for an invention for—"Improved machinery for making screw bolts and nuts." *Letters Patent sealed.*

MORSE. 3rd May 1859.

1110. JEDEDIAH MORSE, of the State of Massachusetts, of the United States of America, for an invention for—"An improved power printing press."

Complete specification; Letters Patent sealed.

BLAKE. 3rd May 1859.

1111. LYMAN REED BLAKE, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful or improved machine for sewing a sole on a boot or shoe." *Complete specification; Letters Patent sealed.*

CHAPMAN. 3rd May 1859.

1112. HENRY CHAPMAN, of Battlebarrow, Appleby, in the County of Westmoreland, for an invention for—"An improved military camp cooking apparatus."

Provisional protection only.

CHAPMAN. 3rd May 1859.

1113. HENRY CHAPMAN, of Battlebarrow, Appleby, in the County of Westmoreland, for an invention for—"Improvements in the construction of kettles."

Provisional protection only.

SCALE. 3rd May 1859.

1114. EDWARD WATKIN SCALE, of Merthyr Tydfil, in the County of Glamorgan, Gentleman, for an invention for—"Improvements in railway signals."

Letters Patent sealed.

MUSHET. 3rd May 1859.

1115. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement in the manufacture of cast steel."

Letters Patent sealed.

KINGSTON. 4th May 1859.

1116. WILLIAM HOLLAND KINGSTON, A.B., Trinity College, Dublin, and of Bandon, County of Cork, Ireland, for an invention for—"Improved means of communication between the passengers and guards and guards and engine drivers of railway trains." *Letters Patent sealed.*

VASSEROT. 4th May 1859.

1117. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved form of tuyere for blast furnaces."—*A communication from François Charles Bierlein, residing at Lingolshein (Bas-Rhin), in the Empire of France.* *Provisional protection only.*

ADOLPHUS. 4th May 1859.

1118. JOSEPH ADOLPHUS, of No. 1, Serle Street, London, in the County of Middlesex, for an invention for—"An improvement in locks, bolts and latches."
Provisional protection only.

NEWTON. 4th May 1859.

1119. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in steam-boilers."—*A communication from abroad by Samuel Pierce, of Troy, in the State of New York, and United States of America.* *Letters Patent sealed.*

WILLANS. 4th May 1859.

1120. JACOB GEOGHEGAN WILLANS, of 2, Clarence Place, Belfast, for an invention for—"Improvements in utilizing bog stuff or peat when applied for treating metals and certain mineral and alkaline substances." *Letters Patent sealed.*

WILSON. 4th May 1859.

1121. JOHN CHARLES WILSON, of 1, Langley Place, Victoria Park, Manchester, for an invention for—"Improvements in machinery for cleaning cotton."
Provisional protection only.

TURNER. 5th May 1859.

1122. HENRY TURNER, of Park Street, Mile End, Engineer, for an invention for—"Improvements in steam-engines and apparatus connected therewith."
Letters Patent sealed.

ALLENDER. ROWLEY. 5th May 1859.

1123. JOSEPH FELIX ALLENDER, of Brierley Hill, in the County of Stafford, Manager of Works, and DANIEL ROWLEY, of Brierley Hill aforesaid, Iron Roller, for an invention for—"Improvements in shears for cutting boiler plates and sheets, and for other like purposes." *Letters Patent sealed.*

SCHOLFIELD. CUDWORTH. 5th May 1859.

1124. JOHN SCHOLFIELD, of Milnrow, near Rochdale, in the County of Lancaster, Cotton Spinner, and WILLIAM CUDWORTH, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials." *Letters Patent sealed.*

CHAPMAN. 5th May 1859.

1125. HENRY CHAPMAN, of Battlebarrow, Appleby, in the County of Westmoreland, for an invention for—"Improved means or appliances for protecting ships against injury from shots, shells, or other warlike projectiles."
Provisional protection only.

CHAPMAN. 5th May 1859.

1126. HENRY CHAPMAN, of Battlebarrow, Appleby, in the County of Westmoreland, for an invention for—"Improvements in the construction of fortifications."
Provisional protection only.

BATHO. BAUER. 5th May 1859.

1127. WILLIAM FOTHERGILL BATHO and EUGENE MORITZ BAUER, of Salford, near Manchester, in the County of Lancaster, Engineers and Tool Makers, for an invention for—"Improvements in drills for recessing, cutting slots, keyways, and cotter holes." *Provisional protection only.*

HUGHES. 5th May 1859.

1128. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in the manufacture of sheet iron."—*A communication from abroad by David A. Morris, of Pittsburg, Pensylvania, United States of America.* *Provisional protection only.*

CLARK. 5th May 1859.

1129. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in seed depositors or drills."—*A communication from abroad by Louis Achille Pruneau, formerly Notary, of Paris.* *Letters Patent sealed.*

KNOX. 5th May 1859.

1130. ANDREW KNOX, of 2, Victoria Cottages, Hertford Road, Kingsland, in the County of Middlesex, Engineer, for an invention for—"Improvements in gas regulators." *Provisional protection only.*

REYNOLDS. 5th May 1859.

1131. HENRY REYNOLDS, of Denmark Hill, in the County of Surrey, Gentleman, for an invention for—"Improvements in refining sugar and other saccharine substances." *Letters Patent sealed.*

BROOMAN. 5th May 1859.

1132. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in cannon and other fire-arms, and in projectiles, wads, and cartridges to be used therewith."—*A communication from abroad by John Webster Cochran, of New York.*
Letters Patent sealed.

FLETCHER. 5th May 1859.

1133. HENRY FLETCHER, of No. 42, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"A machine for scutching and carding tow, oakum, or waste cordage."—*A communication from abroad by Frederick Maigron, Sulphur-Baker, at La Cabucelle (Saint Louis Ward), near Marseilles, in the Empire of France.* *Provisional protection only.*

NEWTON. 5th May 1859.

1134. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved steam gauge."—*A communication from abroad by Anthoine Ernest Dupas, of New Orleans, in the United States of America.* *Letters Patent sealed.*

NEWTON. 5th May 1859.

1135. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in fish-hooks."—*A communication from abroad by Theodore Frederick Weil, of New Orleans, in the United States of America.* *Letters Patent sealed.*

JOHNSON. 5th May 1859.

1136. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in piano-fortes."—*A communication from abroad by George Vogt, of the City of Philadelphia, in the State of Pennsylvania, United States of America.* *Letters Patent sealed.*

KELLINGLEY. 6th May 1859.

1137. WILLIAM KELLINGLEY, of No. 13, Mason Street, New Cross, Surrey, Carriage Builder, for an invention for—"Improvements in the mode of lubricating the journals of the axles of locomotive engines, of carriages, and machinery." *Letters Patent sealed.*

ANGERSTEIN. CLEGG. THORRINGTON. 6th May 1859.

1138. FREDERICK ANGERSTEIN, of Kennington, in the County of Surrey, Esquire, ROBERT CLEGG, of Islington, in the County of Middlesex, Gentleman, and GEORGE THORRINGTON, of Egham, in the said County of Surrey, Lighterman, for an invention for—"Improvements in apparatus for obtaining motive-power." *Letters Patent sealed.*

HART. 6th May 1859.

1139. FREDERIC WILLIAM HART, of Horncastle, in the County of Lincoln, Philosophical Instrument Maker and Photographer, for an invention for—"Improvements in photographic apparatus." *Provisional protection only.*

WRIGHT. 6th May 1859.

1140. SAMUEL WRIGHT, of Sudbury, in the County of Suffolk, Gas Engineer, for an invention for—"An improved gas governer or regulator." *Letters Patent sealed.*

DIXON. 6th May 1859.

1141. JAMES DIXON the younger, of Blackburn, in the County of Lancaster, Paper Stainer, for an invention for—"Improvements in machinery or apparatus for staining paper." *Provisional protection only.*

JONES. 6th May 1859.

1142. THOMAS JONES, of Liverpool, in the County of Lancaster, Slater and Plasterer, for an invention for—"An improved apparatus and arrangement of flues for heating and ventilating buildings, ships, and other structures, and for causing draughts in chimnies." *Letters Patent sealed.*

BOOTH. 6th May 1859.

1143. WILLIAM SHAKSPERE BOOTH, of Birmingham, in the County of Warwick, Undertaker, for an invention for—"A new or improved washing machine." *Letters Patent sealed.*

FREARSON. 6th May 1859.

1144. JOHN FREARSON, of Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"New or improved fastenings for wearing apparel, and for such other purposes as the same are or may be applicable to." *Letters Patent sealed.*

BOUSFIELD. 6th May 1859.

1145. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for grinding grain and other substances."—*A communication from abroad by Pierre Etienne Brisson, of Orleans, France.* *Letters Patent sealed.*

COMBE. 7th May 1859.

1146. JULIEN COMBE, of No. 23, Rue du Champ de Mars, in the City of Paris, in the Empire of France, Gentleman, formerly a Colonel in the French Army, for an invention for—"An improved plantoforme or apparatus for measuring the hoofs of horses for the purpose of forming their shoes." *Provisional protection only.*

BRAY. HARRISON. 7th May 1859.

1147. JOSEPH BRAY, of Staley Bridge, in the County of Chester, and JAMES WILLIAM HARRISON, of Staley Bridge, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for spinning fibrous materials." *Provisional protection only.*

BAMLETT. 7th May 1859.

1148. ADAM CARLISLE BAMLETT, of Middleton Tyas, in the County of York, Farmer, for an invention for—"Improvements in reaping machines, part of which improvements is applicable to other agricultural implements. *Letters Patent sealed.*

HENRY. 7th May 1859.

1149. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture and construction of locks and fastenings."—*A communication from abroad by Joseph Napoleon Rebour, residing at Paris (France).* *Letters Patent sealed.*

MUSHET. 7th May 1859.

1150. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in puddling iron and steel." *Letters Patent sealed.*

MUSHET. 7th May 1859.

1151. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*

FROST. 7th May 1859.

1152. CHARLES FROST, of Suntavernfields, St. George's in the East, in the County of Middlesex, for an invention for—"Improvements in the construction of electric telegraph cables." *Provisional protection only.*

PEARSALL. 7th May 1859.

1153. RICHARD PEARSALL, of Smethwick, in the County of Stafford, Glass Blower, for an invention for—"Improvements in the manufacture of glass shades." *Letters Patent sealed.*

GEDGE. 7th May 1859.

1154. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agents, for an invention for—"Improvements in the manufacture of steel."—*A communication from abroad by Claude Joseph Perinel, of Fourvoiry, Departement de l'Isère, in the Empire of France, Ironmaster.* *Letters Patent sealed.*

KAY. 7th May 1859.

1155. RICHARD DUGDALE KAY, of Accrington, in the County of Lancaster, Manufacturer of Patent Fabrics, for an invention for—"Improvements in the preparation of certain colouring matters."—*A communication from abroad by Dollfus Mieg & Cie., residing at Mulhouse, France.* *Letters Patent sealed.*

JEFFERY. 7th May 1859.

1156. WALTER JEFFERY, of Eastgate Street, Gloucester, for an invention for—"Rendering more convenient out-door manipulations in photography by means of an improved portable photographic tent and tent camera. *Letters Patent sealed.*

RAMSBOTTOM. 9th May 1859.

1157. JOHN RAMSBOTTOM, of Crawshaw Booth, near Rawtenstall, in the County of Lancaster, Machine Printer, for an invention for—"Certain improvements in machinery for printing fabrics." *Letters Patent sealed.*

LUIS. 9th May 1859.

1158. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A self regulating horse machine."—*A communication from abroad by P. Iscac Garin, No. 10, Rue Mogador, Paris, in the Empire of France.* *Complete specification; Letters Patent sealed.*

MARCOUX. 9th May 1859.

1159. CLEMENT AUGUSTE HONORÉ MARCOUX, of No. 71, Rue du Ruisseau, at Montmartre, near Paris, Sculptor, for an invention for—"A new impelling mover by the pressure of water." *Provisional protection only.*

HADLOW. 9th May 1859.

1160. FREDERICK VERNON HADLOW, of 8, Prince Albert Street, Brighton, in the County of Sussex, Engraver, for an invention for—"An improved stamp fer marking linen and other wearing apparel." *Letters Patent sealed.*

BUSSEY. 9th May 1859.

1161. GEORGE GIBSON BUSSEY, of Dunn's Passage Factory, 485, New Oxford Street, in the County of Middlesex, Manufacturer of Leather Goods, for an invention for—"An improved contrivance for carrying cartridges and to facilitate using them." *Complete specification; Letters Patent sealed.*

NEWTON. 9th May 1859.

1162. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of lamp."—*A communication from abroad by William Henry Racey, of St. Augustine, St. John's County, State of Florida, in the United States of America.* *Letters Patent sealed.*

MORTON.
9th May 1859.

1163. ALEXANDER MORTON, of Morton Place, Kilmarnock, County of Ayr, for an invention for—"Improvements in means or apparatus employed in the weaving of figured fabrics." *Letters Patent sealed.*

HUGHES.
9th May 1859.

1164. EDWARD THOMAS HUGHES, of the firm of Huges and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in obtaining motive-power.—*A communication from abroad by Aimé François Lapène, of Paris, in the Empire of France.* *Letters Patent sealed.*

GREEN.
9th May 1859.

1165. THOMAS GREEN, Junior, of Old Broad Street, in the City of London, for an invention for—"Improvements in apparatus applicable to steam-boilers to obtain greater security against explosion." *Letters Patent sealed.*

BARKER.
CARTER.
9th May 1859.

1166. NICHOLSON BARKER, of Heyford, and JAMES ALFRED CARTER, of Blisworth, both in the County of Northampton, for an invention for—"Improvements in apparatus for lubricating the pistons of steam-engines." *Provisional protection only.*

NUTHALL.
10th May 1859.

1167. WILLIAM FROST NUTHALL, of North Lodge, Kilburn, in the County of Middlesex, a Major in Her Majesty's Bengal Army, for an invention for—"Improvements in ordnance and fire-arms and in projectiles to be used therewith. *Letters Patent sealed.*

LEES.
10th May 1859.

1168. ROBERT JOHN LEES, of Woolley Bridge, near Hadfield, in the County of Derby, for an invention for—"Improvements in steam generators or boilers." *Provisional protection only.*

WILKINSON.
WHITLEY.
10th May 1859.

1169. WILLIAM WILKINSON, & CHARLES WHITLEY, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in buttons and fastenings for garments, harness and other similar purposes, and in the method of securing the same." *Letters Patent sealed.*

DEFRIES.
10th May 1859.

1170. MOSS DEFRIES, of Houndsditch, in the City of London, Manufacturer, for an invention for—"Improved apparatus for regulating the pressure of gas." *Letters Patent sealed.*

NORMAN.
10th May 1859.

1171. JOHN NORMAN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in furnaces." *Letters Patent sealed.*

THOMSON.
10th May 1859.

1172. ROBERT THOMSON, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in shuttles." *Letters Patent sealed.*

BELL.
10th May 1859.

1173. GEORGE BELL, of Wandsworth, in the County of Surrey, Manufacturer, for an invention for—"Improvements in matches or fusees." *Letters Patent sealed.*

HENRY.
10th May 1859.

1174. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in heating and in supplying air and in the apparatus employed therein, part of which improvements is also applicable to exhausting fluids."—*A communication from abroad by Louis Cyrille Bureau, residing at Paris, in the French Empire.* *Letters Patent sealed.*

KEILLER.
10th May 1859.

1175. WEDDERSPOON KEILLER, of Perth, in the County of Perthshire, for an invention for—"Improvements in cartridges for guns or small fire-arms." *Provisional protection only.*

BOURNE.
10th May 1859.

1176. WILLIAM OLAND BOURNE, of the City and State of New York, United States of America, for an invention for—"Improvements in the means of an apparatus for separating metals, ores and other substances of different specific gravities." *Letters Patent sealed.*

ABSTERDAM.
10th May 1859.

1177. JOHN ABSTERDAM, Mechanical Engineer, of the City of New York, United States, for an invention for—"Improvements in impregnating illuminating gas with hydro-carbon vapor." *Provisional protection only.*

MANBRÉ.
11th May 1859.

1178. ALEXANDRE MANBRÉ, of No. 10, Rathbone Place, Oxford Street, London, in the County of Middlesex, Brewer, for an invention for—"An improved method of extracting and purifying sugar called glucose and "sirop de fecule," from potatoes or fecula or starch or dextrine, for the purposes and uses of brewers, distillers, vinegar makers, colouring makers, or otherwise." *Provisional protection only.*

MANBRÉ. 11th May 1859.

1179. ALEXANDRE MANBRÉ, of No. 10, Rathbone Place, Oxford Street, London, in the County of Middlesex, Brewer, for an invention for—"The manufacture of a colouring matter for colouring spirits, beers, vinegar, and other liquids, from sugar produced from rice, maize, carrots, maple, ananas, pompions, chestnuts, mangel-wurtzell, sorgho, turnips, and Jerusalem artichoks." *Provisional protection only.*

BENNETT. 11th May 1859.

1180. THOMAS PETER BENNETT, of Gilnow Mills, near Bolton-le-Moors, in the County of Lancaster, Manager, for an invention for—"Certain improvements in or applicable to carding-engines." *Letters Patent sealed.*

LUIS. 11th May 1859.

1181. JOZÉ LUIS, of No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"An improved burling and napping machine."—*A communication from abroad by J. B. Duval, No. 10, Rue Mogador, Paris, in the Empire of France.* *Provisional protection only.*

CLARKE. 11th May 1859.

1182. HENRY CLARKE, of Wakefield, in the County of York, Corn Factor, for an invention for—"Improvements in balancing mill stones to the running as well as to the standing state."—*A communication from abroad by Thomas Narburgh, of St. Louis, Misouri, North America.* *Letters Patent sealed.*

HENRY. 11th May 1859.

1183. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"A mode of protecting the mariner's compass against local attraction."—*A communication from abroad by Samuel C. Bishop, residing at New York, in the United States.* *Letters Patent sealed.*

VASSEROT. 11th May 1859.

1184. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved musrol or nosebag for horses' bridles."—*A communication by Louis Marque, residing at Vienne (Isère), in the Empire of France.* *Provisional protection only.*

SPENCE. 11th May 1859.

1185. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in knapsacks and other military equipments."—*A communication from abroad by John Rider, of New York, United States.* *Letters Patent sealed.*

SALTER. 11th May 1859.

1186. WALTER SALTER, Junior, of Lea, in the County of Wilts, for an invention for—"Improvements in haymaking machines." *Provisional protection only.*

LEADBETTER. RHODES. 11th May 1859.

1187. JAMES LEADBETTER, of Leeds, in the County of York, Brazier, and JAMES RHODES, of Armley, near Leeds, in the same County, Water-Rate Collector, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

LYALL. CAMPIN. 11th May 1859.

1188. JAMES BAGSTER LYALL, of Castle Frome, in the County of Hereford, Gentleman, and FREDERICK WILLIAM CAMPIN, of the Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the 'Saloon' omnibus and other omnibuses, the wheels and springs whereof and mode of attaching them being applicable to other carriages." *Letters Patent sealed.*

FOXWELL. 12th May 1859.

1189. DANIEL FOXWELL, of the City of Manchester, in the County of Lancaster, Card Manufacturer, for an invention for—"Improvements in sewing-machines and apparatus connected therewith." *Letters Patent sealed.*

SAXBY. 12th May 1859.

1190. JOHN SAXBY, Engineer, of Brighton, Sussex, for an invention for—"Improvements in the mode of securing the rails on railways." *Letters Patent sealed.*

BROOMAN. 12th May 1859.

1191. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in machinery for solidifying, pressing, and moulding."—*A communication from abroad by Felix Dehaynin, residing at Paris.* *Letters Patent sealed.*

ROCHETTE. 12th May 1859.

1192. ANDRÉ PROSPER ROCHETTE, of Brighouse, in the County of York, for an invention for—"An improvement in the manufacture of soft soap." *Letters Patent sealed.*

OSWALD. 12th May 1859.

1193. THOMAS RIDLEY OSWALD, of Sunderland, Shipbuilder, for an invention for—"Improvements in building ships and other vessels." *Letters Patent sealed.*

WARNE. FANSHAWE. JAQUES. GALPIN. 12th May 1859.

1194. WILLIAM WARNE, JOHN AMERICUS FANSHAWE, JAMES ARCHIBALD JAQUES, and THOMAS GALPIN, all of Tottenham, in the County of Middlesex, India-Rubber Manufacturers, for an invention for—"An improved compound or preparation of materials for and mode of and apparatus for covering and insulating wires or conductors used for telegraphic or electrical purposes." *Letters Patent sealed.*

WOODLEY. 13th May 1859.

1195. JOHN WOODLEY, of Church Row, Limehouse, in the County of Middlesex, Cooper, for an invention for—"Improvements in sawing machines." *Provisional protection only.*

SCOTT. 13th May 1859.

1196. THOMAS SCOTT, of Rouen, in the Empire of France, Engineer, for an invention for—"An improved surface condenser and refrigerator." *Letters Patent sealed.*

CLARK. 13th May 1859.

1197. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements in knitting machines."—*A communication from abroad by Mr. Jonas Bradley Aiken, of Manchester, in the County of Hillsborough, and State of New Hampshire, in the United States of America, Manufacturer.* *Letters Patent sealed.*

ALLENDER. RICHARDS. 13th May 1859.

1198. JOSEPH FELIX ALLENDER, of Brierley Hill, in the County of Stafford, Manager of Works, and JOB RICHARDS the younger, of Brierley Hill aforesaid, Manager of Works, for an invention for—"Improvements in furnaces for puddling iron." *Provisional protection only.*

WHITEHOUSE. 13th May 1859.

1199. WILLIAM WHITEHOUSE, of New Ferry, near Birkenhead, in the County of Chester, Gentleman, for an invention for—"Improvements in steam vessels." *Provisional protection only.*

GOURLAY. 13th May 1859.

1200. ROBERT GOURLAY, of the firm of Alston and Gourlay, of Glasgow, in the County of Lanark, North Britain, Ironfounders, for an invention for—"Improvements in making moulds for casting." *Letters Patent sealed.*

VICARS. VICARS. ASHMORE. SMITH. 13th May 1859.

1201. THOMAS VICARS, Senior, THOMAS VICARS, Junior, and THOMAS ASHMORE, of Liverpool, Engineers, and JAMES SMITH, of the same place, in the County Palatine of Lancaster, Baker, for an invention for—"Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith." *Letters Patent sealed.*

BROOMAN. 13th May 1859.

1202. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in cooking, preserving, and drying animal and vegetable substances."—*A communication from abroad by Anthony Bourdin, of Paris.* *Provisional protection only.*

JOHNSON. 13th May 1859.

1203. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for treating india-rubber and other similar gums."—*A communication from abroad by Austin G. Day, of Seymour, Connecticut, United States of America.* *Letters Patent sealed.*

THOMSON. 13th May 1859.

1204. WILLIAM SPARKS THOMSON, of New York, in the United States of America, but now of St. Martin's-le-Grand, London, Skirt Manufacturer, for an invention for—"Improvements in the manufacture of hooped skirts."—*Partly a communication from abroad by William Wilmot, of New York, in the United States of America.* *Letters Patent sealed.*

BEALE. KIRKHAM. 13th May 1859.

1205. JOSHUA TAYLOR BEALE, of Greenwich, in the Couuty of Kent, Engineer, and THOMAS NESHAM KIRKHAM, of Upper Halliford, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the preparation of colors for dyeing and printing." *Letters Patent sealed.*

CLOVER. 13th May 1859.

1206. GEORGE ROBERT CLOVER, of the firm of Clover & Royle, of Liverpool, in the County of Lancaster, Ship Builders, for an invention for—"Improvements in ships' night signals." *Provisional protection only.*

MUNRO. 14th May 1859.

1207. JOHN MAY MUNRO, of the City and County of Bristol, Agricultural Machine and Implement Manufacturer, for an invention for—"Improvements in the manufacture and arrangements of chain harrows." *Letters Patent sealed.*

LEAHY. 14th May 1859.

1208. MATTHEW LEAHY, of 53, Hereford Road, Westbourne Park, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for facilitating the draught of carriages." *Letters Patent sealed.*

GEDGE.
14th May 18

1209. WILLAM EDWARD GEDGE, of the firm of John Gedge & Son, of No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agents, for an invention for—"Improvements in dyeing."—*A communication from abroad by J. B. Thénault, of Triancourt, France.* *Provisional protection only.*

SMITH.
14th May 1859.

1210. DAVID SMITH, of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in projectiles for fire-arms." *Provisional protection only.*

COOPER.
EVANS.
14th May 1859.

1211. THOMAS COOPER, of West Bromwich, in the County of Stafford, Builder, and THOMAS JONES EVANS, of West Bromwich aforesaid, Manager of Ironworks, for an invention for—"A new or improved oven or stove for baking, for drying japanned and lacquered goods, and for such other purposes as the same is or may be applicable to." *Provisional protection only.*

MAW.
14th May 1859.

1212. EDWIN MAW, of the Doncaster Iron Works, Yorkshire, for an invention for —"Improvements in the construction of buildings made of iron or other metals." *Provisional protection only.*

CHATTERTON.
14th May 1859.

1213. JOHN CHATTERTON, of 7, Devonshire Street, Islington, in the County of Middlesex, for an invention for—"Improvements in covering wires and other metal conductors for telegraphic purposes." *Letters Patent sealed.*

SHEARD.
16th May 1859.

1214. SCHOFIELD CROWTHER SHEARD, Engineer, of Smethwick, in the County of Stafford, for an invention for—"Certain improvements in fire-bars which bars are applicable to all furnaces where great heat and economy of fuel are required." *Letters Patent sealed.*

ADAMS.
16th May 1859.

1215. EDWARD ADAMS, of the Stanton Iron Works, in the County of Derby, Furnace Manager, for an invention for—"The employment of machinery for drawing or extracting the gas, flame, or smoke from furnaces, and forcing the same into them or into the cupola to be used as blast or fuel for melting iron or mines of any description." *Provisional protection only.*

MIDWORTH.
16th May 1859.

1216. WILLIAM MIDWORTH, of the firm of Messuiers John Midworth and William Midworth, of Newark-upon-Trent, in the County of Nottingham, Engineers, Iron-founders, and Ironmongers, for an invention for—"An improved iron for the use of laundries, tailors, or other purposes." *Letters Patent sealed.*

JONES.
16th May 1859.

1217. JOHN JONES, of Dorstone, in the County of Hereford, Gentleman, for an invention for—"Improvements in musical instruments." *Provisional protection only.*

CLARK.
16th May 1859.

1218. JOHN CLARK, of Glasgow, in the County of Lanark, North Britain, Wholesale Stationer, for an invention for—"Improvements in envelopes and in machinery or apparatus for gumming, embossing, folding, counting and otherwise treating the same, and in part applicable in the treatment of note and other writing paper." *Provisional protection only.*

ALLCRAFT.
16th May 1859.

1219. GEORGE ALLCRAFT, of Upper Thames Street, in the City of London, for an invention for—"Improvements in pressure guages."—*A communication from abroad by John Allcraft, of Bedford Street, New York.* *Letters Patent sealed.*

GEDGE.
16th May 1859.

1220. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agents, for an invention for—"Improvements in mixing, combining and otherwise treating certain matters and substances for the production of manure."—*A communication from abroad by Louis Parent, of Saint Marcel-les-Chalon, France.* *Provisional protection only.*

NEWTON.
16th May 1859.

1221. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in manufacturing instruments for sharpening knives."—*A communication from abroad by Mr. Charles S. Pomeroy, of New York.* *Provisional protection only.*

OWEN.
17th May 1859.

1222. LEMUEL DOW OWEN, of 192, Tottenham Court Road, in the County of Middlesex, Engineer, for an invention for—"An improved menstrual receiver or truss."—*A communication from abroad by Herman W. Lad, of Boston, Massachusetts, United States of America.* *Letters Patent sealed.*

BROWN.
17th May 1859.

1223. JOHN BROWN the younger, of the Rotherham Iron Works, Rotherham, in the County of York, Ironfounder, for an invention for—"Improvements in buffers, draw springs, and bearing springs." *Letters Patent sealed.*

LANDRE. GRAS. BOUCHERIE. 17th May 1859.

1224. ALEXANDRE RÉNÉ LANDRE, POLYDORE GRAS, and ANTOINE LOUIS AUGUSTE BOUCHERIE, all of the City of Marseilles, in the Empire of France, Merchants, trading under the firm Landre, Gras, & Co., for an invention for—"Distilling schist or boghead coal and other minerals for lighting." *Letters Patent sealed.*

DOLLEY. 17th May 1859.

1225. HENRY DOLLEY, of Paris, in the Empire of France, Manufacturer, for an invention for—"An improvement in the manufacture of hooped petticoats, and in the metal ribs employed in the manufacture of hooped petticoats." *Provisional protection only.*

DE TRETS. 17th May 1859.

1226. AMÉDÉE ETIENNE CHARLES JOSEPH REYNAUD DE TRETS, of Marseilles, in the French Empire, Gentleman, for an invention for—"An improved composition for splitting rock." *Letters Patent sealed.*

NASMYTH. 17th May 1859.

1227. JAMES NASMYTH, of Surrey Street, Strand, in the City of Westminster, Engineer, for an invention for—"Improved apparatus for obtainining and applying motive-power." *Letters Patent sealed.*

LAW. 17th May 1859.

1228. CHARLES LAW, of Wolverhampton, in the County of Stafford, Lockmaker, for an invention for—"Improvements in the construction of locks." *Letters Patent sealed.*

ROMAINE. 18th May 1859.

1229. ROBERT ROMAINE, late of Canada West, but now of Chapel Street, Bedford Row, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the means of applying steam power to the cultivation of the soil." *Letters Patent sealed.*

TERRY. 18th May 1859.

1230. ALEXANDER ROBERT TERRY, Civil Engineer, of No. 24, Great George Street, Westminster, for an invention for—"Improvements in apparatus for sawing and cutting up loaf sugar." *Provisional protection only.*

CHARLESWORTH. 18th May 1859.

1231. EDWARD CHARLESWORTH, of No. 1, De Grey Street, York, and No. 3, King William Street, Strand, in the County of Middlesex, for an invention for—"Counteracting the recoil of small fire arms and lessening the risk of injury arising from bursting of the same." *Letters Patent sealed.*

EVANS. 18th May 1859.

1232. SAMUEL NORTON EVANS, of Chapel Yard, North Street, Wolverhampton, in the County of Stafford, Commission Agent, for an invention for—"Improved mechanism for preventing accidents at mines from overwinding." *Letters Patent sealed.*

HASLAM. 18th May 1859.

1233. JOHN HASLAM, of Preston, in the County of Lancaster, for an invention for—"An improved construction of healds or harness used in warp dressing and sizeing machines and in looms for weaving." *Provisional protection only.*

BRENNAND. 18th May 1859.

1234. JOHN BRENNAND, of Manchester, in the County of Lancaster, Calico Printer, for an invention for—"Certain improvements in the construction of carriages for the conveyance of passengers, goods, and minerals, and also in the apparatus for propelling the same." *Provisional protection only.*

DEAN. PARKINSON. RILEY. BURTON. 18th May 1859.

1235. JOHN DEAN, Cotton Manufacturer, JAMES PARKINSON, Manager, EDMUND RILEY, Overlooker, and WILLIAM BURTON, Mechanic, all of Syke Mill, Haslingden, in the County of Lancaster, for an invention for—"Improvements in certain self-acting mules for spinning fibrous materials." *Provisional protection only.*

NICHOLLS. 18th May 1859.

1236. WILLIAM NICHOLLS, of Tregols Road, Truro, in the County of Cornwall, Mill Wright, &c., for an invention for—"Improvements in portable corn mills." *Provisional protection only.*

JOHNSON. 18th May 1859.

1237. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in lubricating certain portions of machinery."—*A communication from abroad by Michael Bonière, the younger, of Paris, in the Empire of France, Manufacturer.* *Letters Patent sealed.*

BROOMAN. 18th May 1859.

1238. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in heating."—*A communication from abroad by Stanislas Lebobe, of Paris.* *Letters Patent sealed.*

CHILDS. 18th May 1859.

1239. JAMES CHILDS, of Windsor House, Putney, in the County of Surrey, for an invention for—"Improvements in hardening and vulcanizing compounds of sulphur with india-rubber and gutta percha." *Letters Patent sealed.*

VALDA. 20th May 1859.

1240. JOHAN VALDA, of London, in the County of Middlesex, for an invention for—"Improvements in stud-fastenings and a system of ornamenting and adapting belts, cravats, ribbons, draperies and other articles, to stud-fastenings."
Letters Patent sealed; specification filed by order.

WALKER. 20th May 1859.

1241. GEORGE WALKER, of Old Nickols Street, Church Street, Shoreditch, in the County of Middlesex, for an invention for—"Certain improvements in swing looking-glasses." *Letters Patent sealed.*

WILSON. 20th May 1859.

1242. ROBERT WILSON, of Patricroft, near the City of Manchester, Engineer, for an invention for—"Improvements in hydraulic machinery." *Letters Patent sealed.*

NEWMAN. 20th May 1859.

1243. HENRY NEWMAN, of Liverpool, in the County of Lancaster, Dentist, for an invention for—"Improvements in the construction of artificial teeth, and in the mode or manner of affixing the same to the frame." *Letters Patent sealed.*

PARFITT. 20th May 1859.

1244. GEORGE JOHN PARFITT, of the City of Bath, in the County of Somerset, City Surveyor, for an invention for—"Improvements in gas burners."
Letters Patent sealed.

LEACH. 20th May 1859.

1245. ROBERT VALENTINE LEACH, of Taibach, in the County of Glamorgan, and of Devizes, in the County of Wilts, Tin-Plate Manufacturer, for an invention for—"Impovements in the manufacture of iron and in the machinery connected therewith." *Provisional protection only.*

KIRKALDY. 20th May 1859.

1246. DAVID KIRKALDY, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in the manufacture or treatment of steel." *Provisional protection only.*

JOHNSON. 20th May 1859.

1247. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the roasting or calcining of ores, applicable also to the oxidising of other substances."—*A communication from abroad by Professor Jean François Persoz, of Paris, in the Empire of France.*
Letters Patent sealed.

TEASDEL. 20th May 1859.

1248. WILLIAM TEASDEL, of Pier, Great Yarmouth, in the County of Norfolk, Engineer, for an invention for—"Improvements in coffer-dams."
Provisional protection only.

SAMPSON. 20th May 1859.

1249. GEORGE ROBINSON SAMPSON, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful improvement in propelling navigable vessels through water."—*A communication from John Taggart, a resident of Roxbury, of the State of Massachusetts, of the United States of America.*
Complete specification; Letters Patent sealed.

BUDD. 20th May 1859.

1250. JAMES PALMER BUDD, of Ystalyfera, near Swansea, for an invention for—"Improvements in the manufacture of tin and terne plates." *Letters Patent sealed.*

CAMBRIDGE. 20th May 1859.

1251. WILLIAM COLBORNE CAMBRIDGE, of Bristol, Agricultural Implement Maker, for an invention for—"Improvements in thrashing and winnowing machines."
Letters Patent sealed.

TAYLOR. 21st May 1859.

1252. ALEXANDER LEPETIT TAYLOR, of No. 16, Ludgate Hill, in the City of London, for an invention for—"An improved form of harmonican pianoforte."
Provisional protection only.

SCARTLIFF. 21st May 1859.

1253. JOHN ROBINSON SCARTLIFF, of Wolverhampton, in the County of Stafford, Mechanic, for an invention for—"Improvements in the construction of lubricating and other cans in order to regulate the discharge or flow of the liquids they contain." *Letters Patent sealed.*

THOMPSON. THOMPSON. 21st May 1859.

1254. JOHN THOMPSON, of Witton, near Northwich, Cheshire, and JOHN THOMPSON, the younger, of Castle, Northwich aforesaid, for an invention for—"The manufacture of salt by an improved and more economical mode."
Provisional protection only.

NEWTON. 21st May 1859.

1255. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of cartridge."—*A communication from abroad by T. F. Henderson, of Baltimore, Maryland, in the United States of America.*
Provisional protection only.

SAVAGE. 21st May 1859.

1256. WILLIAM PEACOCK SAVAGE, of Roxham, Downham Market, in the County of Norfolk, for an invention for—"Improvements in traction steam-engines and machinery for moving agricultural implements and machines." *Provisional protection only.*

PERKIN. GRAY. 21st May 1859.

1257. WILLIAM HENRY PERKIN, King David Fort, St. George in the East, in the County of Middlesex, and MATTHEW GRAY, of the Dalmonach Print Works, Bonhill, Dumbartonshire, for an invention for—"Improvements in mordanting and dyeing fabrics of cotton and other vegetable fibres." *Letters Patent sealed.*

CRESSEY. 21st May 1859.

1258. THOMAS STOKES CRESSEY, of Burton-upon-Trent, for an invention for—"Improvements in machinery for cutting staves for casks." *Letters Patent sealed.*

PASQUIER. 23rd May 1859.

1259. EUGÈNE PASQUIER, Mechanic, residing at Reims, Hinemar Prolongée Street, Marne, in the Empire of France, for an invention for—"Apparatus for drying wool and all filaceous matters." *Complete specification; Letters Patent sealed.*

BRIERLEY. OLD. 23rd May 1859.

1260. JOHN HENRY BRIERLEY, Manufacturer, Stannary Works, Halifax, and GEORGE OLD, Warehouseman, Temple Street, Birmingham, for an invention for —"A brace buckle." *Provisional protection only.*

KNOWLES. 23rd May 1859.

1261. JOHN KNOWLES, of Lower Broughton, near Manchester, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

LEACH. WILLETT. 23rd May 1859.

1262. ROBERT VALENTINE LEACH, of Briton Terry, in the County of Glamorgan, and of Devizes, in the County of Wilts, Tin Plate Manufacturer, and THOMAS WILLIAM WILLETT, of Pont-neath-Vaughan, in the County of Brecon, Civil Engineer, for an invention for—"Improvements in the manufacture of tin plates and terne or leaded plates, and in the apparatus connected therewith." *Letters Patent sealed.*

CRUM. 23rd May 1859.

1263. WALTER CRUM, of Thornliebank, in the County of Renfrew, Bleacher and Calico Printer, for an invention for—"Improvements in printing and dyeing textile fibres and fabrics." *Letters Patent sealed.*

BURNELL. 23rd May 1859.

1264. GEORGE BURNELL, of East Hoathly, in the County of Sussex, Gentleman, for an invention for—"An improved preparation or medicine for the cure of ague." *Letters Patent sealed.*

MASON. BAXTER. 23rd May 1859.

1265. JOHN HUTCHINSON MASON, of the Town and County of the Town of Nottingham, Lace Manufacturer, and GEORGE LEE BAXTER, also of the said Town and County of the Town of Nottingham, Dyer, for an invention for—"Ornamenting lace or other twisted fabrics." *Letters Patent sealed.*

COOKE. 23rd May 1859.

1266. HARRY ARTHUR COOKE, of Chancery Lane, in the County of Middlesex, for an invention for—"Improvements in omnibuses." *Provisional protection only.*

JULLION. 23rd May 1859.

1267. JOHN LOUIS JULLION, Paper Maker, of Stoneywood Works, Aberdeen, N.B., for an invention for—"Improvements in dressing and finishing textile fabrics." *Provisional protection only.*

MOODY. 23rd May 1859.

1268. CHARLES PETERS MOODY, of Corton Denham, in the County of Somerset, Gentleman, for an invention for—"Improvements in machinery for the manufacture of matting or fabric from straw and other vegetable fibres and rods or bars of wood and metal." *Letters Patent sealed.*

BROOMAN. 23rd May 1859.

1269. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Editor of the Mechanics' Magazine, and Patent Agent, for an invention for—"Improvements in axles and in fitting wheels thereto."—*A communication from abroad by M. Masson, residing at Paris.* *Letters Patent sealed.*

BRAMWELL. 23rd May 1859.

1270. FREDERICK JOSEPH BRAMWELL, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in apparatus for raising ships and vessels out of the water."—*Partly a communication from abroad by Messrs. Miers, Brothers, & Maylor, of Rio de Janerio.* *Letters Patent sealed.*

CLARK. 23rd May 1859.

1271. WILLIAM CLARK, of Greenock, in the County of Renfrew, North Britain, Marine Painter, for an invention for—"Improvements in machinery or apparatus for propelling and maneuvring ships, vessels, and boats." *Provisional protection only.*

DODGE.
23rd May 1859.

1272. NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Churchyard, in the City of London, Merchant and Manufacturer, for an invention for—"Improvements in treating waste vulcanized india-rubber."—*A communication from abroad by Hyram Lyman Hall, of Beverley, Massachusetts, United States of America.*
Letters Patent sealed.

BARCLAY.
23rd May 1859.

1273. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in steam hammers."
Provisional protection only.

DODGE.
23rd May 1859.

1274. NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Churchyard, in the City of London, Merchant and Manufacturer, for an invention for—"Improvements in finishing, coloring, and varnishing india-rubber goods and similar manufactures."—*A communication from abroad by Hyram Lyman Hall, of Beverley, Massachusetts, United States of America.* *Letters Patent sealed.*

NEWTON.
23rd May 1859.

1275. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of washing machine."—*A communication from abroad David Parker, of Shaker Village, New Hampshire, in the United States of America.*
Letters Patent sealed.

STANSFIELD.
24th May 1859.

1276. JAMES STANSFIELD, of Batley, in the County of York, Woollen Spinner, for an invention for—"Improvements in the permanent way of railways."
Provisional protection only.

DAVIES.
24th May 1859.

1277. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Atmospheric apparatus for the submarine transport of blocks of stone and for raising sunken vessels,"—*A communication from abroad by T. Bandier, of Paris, in the Empire of France.* *Letters Patent sealed.*

FISHER.
24th May 1859.

1278. JAMES CRAIG FISHER, of 51, Cathedral Street, Glasgow, Manager of Cook's Patent Composition Company, for an invention for—"Improvements in preparing paints and varnishes." *Provisional protection only.*

JONES.
24th May 1859.

1279. GILBERT DANIEL JONES, of Clerkenwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in mills or machinery for grinding, reducing, and pulverizing." *Letters Patent sealed.*

GIBBS.
24th May 1859.

1280. JOSEPH GIBBS, of Brentford, in the County of Middlesex, Civil Engineer, for an invention for—"A method of treating coal, shale, lignites and peat in order to manufacture manure." *Letters Patent sealed.*

DENHAM.
24th May 1859.

1281. WILLIAM THOMAS DENHAM, of Wilmington Square, in the County of Middlesex, Trimming Manufacturer, for an invention for—"Improvements in the manufacture of goffering machines." *Provisional protection only.*

HADFIELD.
24th May 1859.

1282. GEORGE HADFIELD, of Carlisle, in the County of Cumberland, Varnish Manufacturer, for an invention for—"An improved arrangement of heating and evaporating apparatus." *Letters Patent sealed.*

PAGE.
24th May 1859.

1283. EDWARD PAGE, of Bedford, Agricultural Implement Manufacturer, for an invention for—"Improvements in horse drags or rakes."
Provisional protection only.

SAX.
24th May 1859.

1284. ANTOINE JOSEPH SAX, trading under the firm of Adolphe Sax, of Paris, France, Musical Instrument Maker, for an invention for—"Improvements in wind musical instruments." *Letters Patent sealed.*

GREENOUGH.
24th May 1859.

1285. BENJAMIN FRANKLIN GREENOUGH, of Boston, in the County of Suffolk, Massachusetts, U.S.A., for an invention for—"An electrical conductor for submarine telegraphs, which he denominates a hydro-electric conductor."
Provisional protection only.

MENNONS.
24th May 1859.

1286. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved apparatus for the preparation of sand moulds for metal casting."—*A communication from Messieurs Maudoy & Couty, residing in Paris.*
Complete specification; Letters Patent sealed.

HARMER. 25th May 1859.

1287. JAMES HARMER, of St. James Street, Lower Road, Islington, in the County of Middlesex, for an invention for—"Improvements in parts of dry gas meters."—*Partly a communication from abroad by William Sinderby, of Boston, Massachusetts, in the United States of America.* *Letters Patent sealed.*

PRICE. 25th May 1859.

1288. DAVID SIMPSON PRICE, of 7, Green Street, Grosvenor Square, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in the production of colors for dyeing and printing." *Letters Patent sealed.*

GLASS. 25th May 1859.

1289. RICHARD ATWOOD GLASS, of 115, Leadenhall Street, in the City of London, Submarine Telegraph Cable and Wire Rope Manufacturer, for an invention for —"Improvements in submarine electric telegraph cables." *Letters Patent sealed.*

MAW. 25th May 1859.

1290. EDWIN MAW, of the Doncaster Ironworks, Yorkshire, for an invention for—"Improvements in the construction of metallic bedsteads and other furniture." *Provisional protection only.*

PRINCE. 25th May 1859.

1291. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in the construction of ships and vessels."—*A communication from abroad by Hermann Hirsch, resident at Berlin, in the Kingdom of Prussia.* *Letters Patent sealed.*

PRINCE. 25th May 1859.

1292. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in screw propellors."—*A communication from abroad by Hermann Hirsch, resident at Berlin, in the Kingdom of Prussia.* *Letters Patent sealed.*

DAVIS. 25th May 1859.

1293. ALBERT JOHN DAVIS, of 29, George Street, Hanover Square, in the County of Middlesex, Surgeon Dentist, for an invention for—"Improvements in apparatus for protecting persons when employed in cleaning windows, painting, or working at the exterior of houses and ships' sides and such like operations, applicable also for purposes of military and other observation." *Provisional protection only.*

MALLETT. 25th May 1859.

1294. JOHN MALLETT, of Barnstaple, in the County of Devon, Watch Manufacturer, Silversmith and Jeweller, for an invention for—"An improved regulator for watches, portable clocks, and timepieces." *Letters Patent sealed.*

NEWTON. 25th May 1859.

1295. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery applicable to the manufacture of rivets, bullets, and other like articles."—*A communication from abroad by Charles Bartholomew Allen, of Philadelphia, United States of America.* *Letters Patent sealed.*

HOWARD. 25th May 1859.

1296. JAMES HOWARD, of Bedford, Agricultural Implement Maker, for an invention for—"An improved construction of horse-rake." *Letters Patent sealed.*

AMOS. 25th May 1859.

1297. CHARLES EDWARDS AMOS, of the Grove, in the Borough of Southwark, Engineer, for an invention for—"Improved apparatus for raising vessels for repair and for floating vessels in shallow water." *Letters Patent sealed.*

WEBSTER. 26th May 1859.

1298. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in pressure and vacuum guages." *Provisional protection only.*

REYNOLDS. 26th May 1859.

1299. JOSEPH REYNOLDS, of No. 11, Carthusian Street, Charterhouse Square, London, Gentleman, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

PATRICK. 26th May 1859.

1300. HUGH WILLIAM PATRICK, of No. 4, Mill Hill Terrace, Acton, in the County of Middlesex, for an invention for—"A new substance or material to be used in lieu of ivory and other like substances." *Letters Patent sealed.*

DORN. 26th May 1859.

1301. CHARLES DORN, of Stuttgart, in the Kingdom of Wurttemberg, but now residing at Birmingham, in the County of Warwick, Mining Engineer, for an invention for—"Improvements in kilns for baking or burning china, earthenware and bricks, and for other like purposes." *Provisional protection only.*

YOUNG. 26th May 1859.

1302. JOHN YOUNG, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"Improvements in locks and in the manufacture of knobs for locks and latches, and also in apparatus for preventing draughts and keeping out wet from doors and windows." *Letters Patent sealed.*

EFFERTZ. 26th May 1859.

1303. PETER EFFERTZ, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Certain improvements in machinery or apparatus for cutting paper, pasteboard, cardboard, and also for cutting or slicing wood into thin scaleboard or veneers, or for similarly cutting other articles."
Provisional protection only.

CHANTRELL. 26th May 1859.

1304. GEORGE FREDERIC CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, for an invention for—"Improvements in the construction of charcoal kilns and in the manufacture of coolers for charcoal kilns."
Letters Patent sealed.

NEVILL. 26th May 1859.

1305. WILLIAM HENRY NEVILL, of Llanelly, in the County of Carmarthen, Manufacturer, for an invention for—"Improvements in the manufacture of steel and wrought iron." *Letters Patent sealed.*

DRAPER. 26th May 1859.

1306. JOHN DRAPER, of 5, Little Tower Street, in the City of London, for an invention for—"Improvements in applying indices to account and other books."
Letters Patent sealed.

MICHAELIS. KERSHAW. 26th May 1859.

1307. MICHAEL MICHAELIS, of Manchester, in the County of Lancaster, Clerk, and ROBERT KERSHAW, of Heywood, in the said County, Manufacturer, for an invention for—"Improvements in the manufacture of velvets and other piled fabrics."
Provisional protection only.

BENT. 26th May 1859.

1308. JAMES CORN BENT, of Birmingham, in the County of Warwick, Gas Meter Manufacturer, for an invention for—"Improvements in gas-meters."
Letters Patent sealed.

WRIGHT. 26th May 1859.

1309. WILLIAM WRIGHT, of Deptford, in the County of Kent, for an invention for—"Improvements in fastening shirts, collars, and other articles of wearing apparel." *Provisional protection only.*

JACKSON. 27th May 1859.

1310. LUKE DUNCAN JACKSON, Engineer, 32, Finsbury Market, Finsbury, in the County of Middlesex, for an invention for—"An improved machine for cutting wood." *Provisional protection only.*

WEILD. 27th May 1859.

1311. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in looms for weaving pile fabrics."
Letters Patent sealed.

MENNONS. 27th May 1859.

1312. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for "An improved mode of advertising."—*A communication from Albano Gatte, residing in Paris.* *Provisional protection only.*

AITCHISON. BINKS. 27th May 1859.

1313. PATRICK AITCHISON, Brass Founder, & THOMAS BINKS, Plumber, both of Sheffield, in the County of York, for an invention for—"Improvements in self-acting and other water-closets, and in flushing apparatus connected therewith."
Letters Patent sealed.

FARRENC. SUBRA. 27th May 1859.

1314. LEON FARRENC, Gentleman, and BERNARD SUBRA, Professor of Mathematics, both of Paris, France, for an invention for—"Improvements in gas lighting by means of direct carburators." *Letters Patent sealed.*

NISSEN. 27th May 1859.

1315. HILARY NICHOLAS NISSEN, of Mark Lane, in the City of London, Stationer and Printer, for an invention for—"An improvement in book indexes."
Letters Patent sealed.

HADFIELD. 27th May 1859.

1316. GEORGE HADFIELD, of Carlisle, in the County of Cumberland, Varnish Manufacturer, for an invention for—"Improvements in the mode of and apparatus for forming casks or barrels." *Letters Patent sealed.*

SAMUELSON. 28th May 1859.

1317. BERNHARD SAMUELSON, of Banbury, in the County of Oxford, for an invention for—"Improvements in machines for cutting roots and other vegetables."
Letters Patent sealed.

WILSON. 28th May 1859.

1318. THOMAS WILSON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in breech loading fire-arms and ordnance."
Letters Patent sealed.

CRUM. 28th May 1859.

1319. WALTER CRUM, of Thornliebank, in the County of Renfrew, Bleacher and Calico Printer, for an invention for—"Improvements in printing and dyeing textile fibres and fabrics." *Letters Patent sealed.*

GRAVELEY. 28th May 1859.

1320. WILLIAM HENRY GRAVELEY, of Upper East Smithfield, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatuses for purifying and aërating sea water, parts of which may be employed for cooking and baking purposes." *Letters Patent sealed.*

BROOMAN. 28th May 1859.

1321. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in machinery for cleaning, grinding, and bolting corn and other grain."—*A communication from abroad by Jean Baptiste Falguière, of Marseilles.* *Letters Patent sealed.*

OLDBURY. 28th May 1859.

1322. JOSEPH OLDBURY, Gun and Pistol Maker, of Summer Row, Handsworth, in the County of Stafford, for an invention for—"Improvements in breech-loading fire-arms, applicable to pistols, muskets, carbines, and birding or other guns." *Provisional protection only.*

BAPTY. 28th May 1859.

1323. JOHN BAPTY, of Leeds, in the County of York, Foreman, for an invention for—"An improved mode of and apparatus for manufacturing felted cloth." *Provisional protection only.*

DAVIS. 30th May 1859.

1324. MARCUS DAVIS, of 5, Lyon's Inn, Strand, in the City of Westminster, Caoutchouc Wheel Manufacturer, for an invention for—"Improvements in the construction of wheels, axles, and boxes for carriages." *Letters Patent sealed.*

SMITH. 30th May 1859.

1325. ARCHIBALD SMITH, Engineer, of 69, Princes Street, Leicester Square, London, for an invention for—"Improvements in machinery for making lines, ropes, and cables for telegraphic and other purposes." *Letters Patent sealed.*

GRIMSHAW. 30th May 1859.

1326. WESTON GRIMSHAW, of Bowdon, in the County of Chester, Gentleman, for an invention for—"Certain improvements in machinery for compressing bricks, tiles, artificial fuel, and other similar articles." *Letters Patent sealed.*

BREFFIT. 30th May 1859.

1327. EDGAR BREFFIT, of 61, King William Street, in the City of London, Glass Manufacturer, for an invention for—"Improvements in machinery or apparatus for the manufacture of hollow corks." *Letters Patent sealed; no specification filed.*

BRUCE. 30th May 1859.

1328. JOHN BRUCE, of Tiddington, near Stratford-on-Avon, in the County of Warwick, Agricultural Implement Maker, for an invention for—"An improvement in agricultural drills." *Letters Patent sealed.*

GOSSAGE. 30th May 1859.

1329. WILLIAM GOSSAGE, of WIDNES, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of iron and steel." *Letters Patent sealed.*

FRY. 30th May 1859.

1330. JAMES FRY, of Wrotham, Sevenoaks, in the County of Kent, Miller, for an invention for—"An improvement in mills for grinding." *Letters Patent sealed.*

MAGGS. 30th May 1859.

1331. OLIVER MAGGS, of Bourton, in the County of Dorset, for an invention for—"Improvements in harrows." *Letters Patent sealed.*

GREEN. 30th May 1859.

1332. WILLIAM GREEN, of Victoria Works, Dod Street, Limehouse, in the County of Middlesex, for an invention for—"Improvements in washing or purifying and treating sugar." *Letters Patent sealed.*

BLACKBURN. BLACKBURN. 30th May 1859.

1333. ISAAC BLACKBURN, and ROBERT BLACKBURN, both of Long Eaton, in the County of Derby, Engineers, for an invention for—"Improvements in locomotive or traction engines and in implements connected therewith for cultivating the soil." *Letters Patent sealed.*

NORTON. 30th May 1859.

1334. JAMES LEE NORTON, of Belle Sauvage Yard, Ludgate Hill, in the City of London, for an invention for—"Improvements in machines for stretching and drying fabrics, and in drying wool and other fibres." *Letters Patent sealed.*

MICKELTHWATE. PEACE. HOBSON. 30th May 1859.

1335. ARTHUR MICKELTHWATE, JOSEPH PEACE, and SAMUEL JOHNSTONE HOBSON, all of Sheffield, in the County of York, for an invention for—"Improvements in the coating and covering of metallic springs, steel, iron, and other metal bands for the use of any kind of machinery, driving bands or straps, ribs suitable for umbrellas and parasols, stay busks, and ribs for stays, hats, bonnets, reeds, and crinoline, and articles of dress and other useful purposes." *Letters Patent sealed.*

LEESON. 30th May 1859.

1336. ENOCH LEESON, of No. 13, Traffic Street, Derby, in the County of Derby, Lace Manufacturer, for an invention for—"Improvements in machinery for the manufacture of ornamental chenille, fringes and braids, or other fabrics." *Letters Patent sealed; no specification filed.*

CLARK.
30th May 1859.

1337. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improved means of reefing and shortening sail in ships and other vessels."—*A communication from abroad by Enoch Erastus Mulliner, of New York, in the United States of America, Mariner.*
Provisional protection only.

CLARK.
30th May 1859.

1338. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A new manufacture of leaven."—*A communication from abroad by Frederic Ludewig, Manufacturing Chemist, Paris.*
Provisional protection only.

SMITH.
31st May 1859.

1339. WILLIAM SMITH, of Nos. 18 & 19, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Apparatus for raising and docking ships and other similar purposes."—*A communication from abroad by Mr. John W. Nystrom, a Citizen of the United States of North America, at present residing in Russia.*
Letters Patent sealed.

COCKINGS.
31st May 1859.

1340. JAMES SEPTIMUS COCKINGS, Civil Engineer, of Ann Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the construction of self-adjusting cases for holding and carrying cartridges of various sizes or guages, parts of which improvements are also applicable to cartridge-carriers now in use." *Letters Patent sealed.*

CARR.
BUTTERWORTH.
31st May 1859.

1341. SAMUEL CARR, and GEORGE BUTTERWORTH, of the firm of Carr & Butterworth, of Leeds, in the County of York, Manufacturers, for an invention for—"Improvements in the manufacture of felted cloth, and in the machinery or apparatus employed in such manufacture." *Letters Patent sealed.*

WOOD.
ROGERS.
31st May 1859.

1342. EDWIN ARCHER WOOD, of Victoria Terrace, Notting Hill, in the County of Middlesex, of the Peninsular and Oriental Steam Navigation Company, and MARTIN DADD ROGERS, of Bromley, in the County of Middlesex, Shipwright, for an invention for—"Improved apparatus for raising and lowering boats."
Provisional protection only.

WANSBROUGH.
31st May 1859.

1343. JAMES WANSBROUGH, of Bridge Street, in the Borough of Southwark, Gentleman, for an invention for—"Improvements in the construction of stereoscopes."—*A communication from abroad by Egbert Moxham, of Bruges, in the Kingdom of Belgium.* *Letters Patent sealed.*

SMITH.
31st May 1859.

1344. GEORGE HENRY SMITH, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in sewing-machines."
Letters Patent sealed.

GAMBARDELLA.
31st May 1859.

1345. PHILIPPE GAMBARDELLA, of Naples, Engineer, at present temporily residing at the Office for Patents, 123, Chancery Lane, London, for an invention for—"Improvements in obtaining motive-power, and in machinery or apparatus connected therewith." *Provisional protection only.*

LUNDY.
31st May 1859.

1346. JOHN JAMES LUNDY, of the City of Manchester, in the County of Lancaster, and of Leith, North Britain, Colour and Varnish Manufacturer, for an invention for—"Improvements in cartridges and gun-wads for facilitating the loading and lubricating of fire-arms." *Letters Patent sealed.*

SUTER.
31st May 1859.

1347. ALFRED SUTER, of 65, Fenchurch Street, in the City of London, for an invention for—"A furniture castor to be used upon the feet of tables, seats, and all descriptions of furniture or other things." *Letters Patent sealed.*

ROBERTS.
ROBERTS.
31st May 1859.

1348. FREDERICK ROBERTS, of Maiden Newton, and ALEXANDER ROBERTS, of Froome Vanchurch, both in the County of Dorset, for an invention for—"Improvements in apparatns employed for ploughing, tilling, or cultivating land when steam power is employed." *Letters Patent sealed.*

MIQUEL.
1st June 1859.

1349. JEAN FELIX MIQUEL, of Paris, France, Physician, for an invention for—"Improvements in trusses." *Letters Patent sealed.*

COTTAM.
COTTAM.
1st June 1859.

1350. GEORGE HALLEN COTTAM and HENRY RICHARD COTTAM, of St. Pancras Iron Works, Old St. Pancras Road, in the County of Middlesex, for an invention for—"Improvements in stable fittings." *Letters Patent sealed.*

SALTONSTALL. BUSH. 2nd June 1859.

1351. FRANCIS WALTER SALTONSTALL, of Northumberland Street, Strand, in the County of Middlesex, and ALFRED BUSH, of Hanover Cottage, Park Road, Saint John's Wood, in the County of Middlesex, aforesaid, for an invention for—"An improved machine or apparatus for dredging and excavating." *Letters Patent sealed.*

CHAPIN. 2nd June 1859.

1352. MYRON HOLLEY CHAPIN, of 4, Gresham Street, in the City of London, and of Murray Street, New York, United States of America, Merchant, for an invention for—"Improvements in galloons, tapes or ribbons for supporting steel and other hoops used for distending ladies' dresses." *Provisional protection only.*

WHITEHEAD. 2nd June 1859.

1353. ROBERT KAY WHITEHEAD, of Elton, near Bury, in the County of Lancaster, Bleacher, Dyer and Printer, for an invention for—"Improvements in apparatus to be used in bleaching, dyeing, and extracting the colouring matter from dye materials." *Provisional protection only.*

WOOD. WOOD. BILLINGTON. 2nd June 1859.

1354. SAMUEL WOOD, and JOHN WOOD, both of the City of Manchester, Embroiderers, and PHILLIP BILLINGTON, of Rusholme, near the City of Manchester, Mechanic, for an invention for—"Certain improvements in and applicable to machines for embroidering." *Letters Patent sealed.*

SMITH. SMITH. 2nd June 1859.

1355. ALEXANDER SMITH, and WILLIAM SMITH, both of Glasgow, in the County of Lanark, North Britain, Engineers, for an invention for—"Improvements in machinery for curing sugar and for separating solid and liquid substances by centrifugal force." *Provisional protection only.*

BURY. 2nd June 1859.

1356. SAMUEL BURY, of Manchester, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces. *Letters Patent sealed.*

BURY. 2nd June 1859.

1357. SAMUEL BURY, of Manchester, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for embossing and finishing textile fabrics or other like surfaces." *Letters Patent sealed.*

PARKES. BAGNALL. 2nd June 1859.

1358. WILLIAM HENRY PARKES, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM BAGNALL, of Birmingham, aforesaid, Plater, for an invention for—"A new or improved ventilator for hats and other head coverings and also for carriages." *Letters Patent sealed.*

WHITBY. DEMPSEY. 2nd June 1859.

1359. TIMOTHY WHITBY, of Millbank Street, Westminster, and WILLIAM DEMPSEY, of Great George Street, Westminster, in the County of Middlesex, Civil Engineers, for an invention for—"Improvements in and applicable to ordnance and fire-arms, and in the projectiles to be used therewith." *Provisional protection only.*

PASCAL. 2nd June 1859.

1360. JEAN BAPTISTE PASCAL, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in hot-air engines." *Letters Patent sealed.*

WILSON. 3rd June 1859.

1361. JOHN WILSON, of St. Helen's, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of carbonate of soda." *Letters Patent sealed.*

EDWARDS. 3rd June 1859.

1362. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of anchors." *Provisional protection only.*

SIEVIER. 3rd June 1859.

1363. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, but now residing in Hull, in the County of Yorkshire, in the Kingdom of Great Brittain, for an invention for—"Improvements in smelting and purifying of iron and other ores." *Provisional protection only.*

ONIONS. 3rd June 1859.

1364. JOSEPH ONIONS, of Darlaston, in the County of Stafford, Engineer, for an invention for—"A new or improved steam-boiler." *Provisional protection only.*

MUSHET. 3rd June 1859.

1365. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement or improvements in the manufacture of iron and steel." *Letters Patent sealed.*

PENRICE. 3rd June 1859.

1366. HERBERT NEWTON PENRICE, of Witton House, near Norwich, for an invention for—"Improvements in machinery for propelling vessels." *Letters Patent sealed.*

KYLE.
3rd June 1859.

1367. JOHN KYLE, of Liverpool, in the County of Lancaster, Pointsman, for an invention for—"Improvements in points for railways and chairs for the same."
Provisional protection only.

JOHNSON.
3rd June 1859.

1368. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in reducing solid substances to powder, and in the machinery or apparatus employed therein."—*A communication from abroad by William James Cantelo, of Burlington, Burlington County, State of New Jersey.* *Letters Patent sealed.*

BARANOWSKI.
3rd June 1859.

1369. JEAN JOSEPH BARANOWSKI, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in railway signal apparatuses."
Provisional protection only.

ARROTT.
3rd June 1859.

1370. ALEXANDER ROBERTSON ARROTT, of Saint Helen's, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of soda." *Letters Patent sealed.*

BURROW.
WILSON.
3rd June 1859.

1371. JAMES BURROW, of Ashford Parsonage, Bakewell, in the County of Derby, Clerk in Holy Orders, and WILLIAM NEWTON WILSON, of 144, High Holborn, in the County of Middlesex, for an invention for—"An improved floor scrubber and sweeper for carpets, floors, lawns, and other such like useful purposes."
Letters Patent sealed.

NEWTON.
3rd June 1859.

1372. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in balancing millstones."—*A communication from abroad by John Fairclough, of Louisville, in the County of Jefferson and State of Kentucky, United States of America.* *Provisional protection only.*

CROSSLEY.
4th June 1859.

1373. HENRY CROSSLEY, of Failsworth, near Manchester, in the County of Lancaster, for an invention for—"Improvements in jacquard machines."
Provisional protection only.

CHRIMES.
4th June 1859.

1374. RICHARD CHRIMES, of Rotherham, in the County of York, Brass and Iron Founder, for an invention for—"Improvements in apparatus for supplying water to and discharging the contents from urinals, wash hand basins, and other similar articles." *Letters Patent sealed.*

GILL.
4th June 1859.

1375. EDWARD GILL, of The Elms, St. Ann's Road, Wandsworth Common, in the County of Surrey, Distiller, for an invention for—"Improvements in producing spirit from rice, maize, and other descriptions of grain." *Letters Patent sealed.*

NUTTALL.
RIDING.
COULTHURST.
4th June 1859.

1376. JAMES NUTTALL, of Old Accrington, Beerseller, GEORGE RIDING, of Clayton-le-Moors, Medical Botanist, and WILLIAM COULTHURST, of Old Accrington, Chemist (all in the County of Lancaster), for an invention for—"An improved size powder to be used in sizeing cotton, linen, or other warps for weaving." *Provisional protection only.*

DAVIES.
4th June 1859.

1377. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"An improvement in wearing apparel."—*A communication from abroad by Gabriel Jean Julien Laury, of Paris, in the Empire of France.* *Letters Patent sealed.*

WOOD.
WOOD.
4th June 1859.

1378. JAMES WOOD, and WILLIAM WOOD, both of the Town and County of the Town of Nottingham, Lace Manufacturers, for an invention for—"A peculiar mode or method of dying lace or other fabrics, and making the same into bonnet and cap fronts or other articles." *Letters Patent sealed; no specification filed.*

JAMES.
4th June 1859.

1379. CHRISTOPHER JAMES, of Mountain Ash, Aberdare, in the County of Glamorgan, Agent, for an invention for—"An improvement in the manufacture of railway chairs." *Letters Patent sealed.*

PALMER.
6th June 1859.

1380. CHRISTOPHER RICHARD NORRIS PALMER, of Gravesend, in the County of Kent, Gentleman, for an invention for—"Improved signalizing apparatus and instruments, and improved mechanical contrivances and arrangements for the purposes specified." *Provisional protection NOT granted.*

HYLAND. 6th June 1859.

1381. THOMAS HYLAND, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of gum or dextrine and their compounds from starch." *Provisional protection only.*

DAVIES. 6th June 1859.

1382. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in paddle wheels and screw propellers for steam vessels.—*A communication from abroad by Auguste Jouan, of San Francisco, California.*" *Provisional protection only.*

FERRABEE. 6th June 1859.

1383. JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the County of Gloucester, Engineer, for an invention for—"Improved machinery for forming bats of fleece or sheet sliver, and also for folding cloth and other fabrics." *Letters Patent sealed.*

GREEN. 6th June 1859.

1384. WILLOUGHBY GREEN, of 2, Victoria Street, in the City of London, and of Leeds, in the County of York, for an invention for—"Improvements in mowing-machines." *Letters Patent sealed.*

POOLEY. 7th June 1859.

1385. CHARLES POOLEY, of the City of Manchester, Cotton Spinner, for an invention for—"Improvements in machinery for preparing to spin and for spinning cotton and other fibrous materials." *Letters Patent sealed.*

CORNISH. 7th June 1859.

1386. KENNETH HENRY CORNISH, of 5, Essex Court, Middle Temple, Surgeon, M.R.C.S., F.M.S., for an invention for—"Improvements in bedsteads, sofas, couches and chairs, applicable to other seats or reclining surfaces. *Provisional protection only.*

SALMON. 7th June 1859.

1387. PETER SALMON, of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in valves for pumps and other uses." *Provisional protection only.*

NATION. 7th June 1859.

1388. WILLIAM BRYER NATION, of Union Row, Union Bridge, Rotherhithe, London, Analytical Chemist, for an invention for—"Improvements in the manufacture of superphosphate of lime." *Letters Patent sealed.*

DORMAN. COWPER. 7th June 1859.

1389. WILLIAM HENRY DORMAN, of Winchester House, Old Broad Street, in the City of London, and CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in traction and locomotive engines." *Provisional protection only.*

BARCLAY. 7th June 1859.

1390. ROBERT BARCLAY, of Bucklersbury, in the City of London, for an invention for—"Improvements in the manufacture of paper from which writing or other inks cannot be expunged or extracted without detection." *Letters Patent sealed.*

GREENFIELD. 7th June 1859.

1391. JOHN GREENFIELD, of 8, Speedwell Street, Oxford, in the County of Oxford, for an invention for—"Improvements in fastenings for dresses and other like apparel." *Provisional protection only.*

FAIRGRIEVE. BATHGATE. 7th June 1859.

1392. ROBERT RIDDELL FAIRGRIEVE, of Boston, in the United States of America, Machinist, and Simeon Bathgate, of the Town and County of Selkirk, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for winding yarns or thread." *Letters Patent sealed.*

MUIR. 7th June 1859.

1393. FRANCIS MUIR, of Paisley, in the County of Renfrew, North Britain, Pattern Printer, for an invention for—"Improvements in ornamental or colour printing." *Provisional protection only.*

HENDERSON. HENDERSON. BAGLEY. HOLDSWORTH. 8th June 1859.

1394. JOHN HENDERSON, WILLIAM HENDERSON, and THOMAS BAGLEY, of the City of Durham, Carpet Manufacturers, and SAMUEL HOLDSWORTH, of the same place, Engineer to Messieurs Henderson and Company, for an invention for—"Improvements in looms for weaving, some of which improvements are applicable to other purposes. *Letters Patent sealed.*

DE BERGUE. 8th June 1859.

1395. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in machinery for punching and shearing metal."—*Partly a communication from abroad by Michael De Bergue, of Barcelona, in the Kingdom of Spain.* *Letters Patent sealed.*

HOWELL.
HICK.
HARGREAVES.
8th June 1859.

1396. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, Steel Manufacturer, JOHN HICK, of Great Bolton, in the County of Lancaster, Ironfounder, and WILLIAM HARGREAVES, of the same place, Ironfounder, for an invention for—"Improvements in apparatus for applying heat to steam or other boilers or vessels and for facilitating the combustion of gases and smoke."
Letters Patent sealed.

ROYER.
8th June 1859.

1397. JOSEPH NICOLAS ROYER, Tailor, of Paris, France, for an invention for—"Improvements in the manufacture of wadded or quilted fabrics and in their imitation." *Provisional protection only.*

MOLOZAY.
8th June 1859.

1398. JEAN BAPTISTE MOLOZAY, of No. 68, Rue d' Angoulême du Temple, in the City of Paris, Gentleman, for an invention for—"New means of manufacturing velvet." *Provisional protection only.*

EDDY.
8th June 1859.

1399. CHARLES WALTER EDDY, of Kegworth, in the County of Leicester, Master of Arts, for an invention for—"An improvement in reaping machines."
Provisional protection only.

NEWTON.
8th June 1859.

1400. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in gas meters." — *A communication from abroad by William Richards, of Barcelona, in the Kingdom of Spain.* *Letters Patent sealed.*

ASHBY.
8th June 1859.

1401. JOHN EYRE ASHBY, of Enfield, Batchelor of Arts, F.R.A.S., for an invention for—"Improvements in sights for fire-arms." *Provisional protection only.*

BURNESS.
9th June 1859.

1402. WILLIAM BURNESS, of 2, Prospect Terrace, Brixton, in the County of Surrey, for an invention for—"Improvements in steam-culture machinery, part of which is applicable to steam cartage and other purposes." *Letters Patent sealed.*

BARTHOLOMEW.
9th June 1859.

1403. GEORGE BARTHOLOMEW, of the Town and County of Linlithgow, North Britain, Edge Tool Maker, for an invention for—"Improvements in shoes for horses and other animals." *Provisional protection only.*

TUCK.
9th June 1859.

1404. JOSEPH HENRY TUCK, of 34, Great George Street, Westminster, for an invention for—"Improvements in breakwaters, sea walls and like structures."
Letters Patent sealed.

WELSFORD.
9th June 1859.

1405. ENOS WELSFORD, of Bona, Algeria, Proprietor, for an invention for—"Improvements in tanning." *Letters Patent sealed.*

GREENSHIELDS.
10th June 1859.

1406. THOMAS GREENSHIELDS, of No. 11, Little Titchfield Street, London, for an invention for—"Improvements in purifying gas and obtaining ammoniacal and other salts." *Letters Patent sealed.*

HAINES.
10th June 1859.

1407. MICHAEL JOHN HAINES, of Dursley, in the County of Gloucester, Strap Maker, for an invention for—"Improvements in the manufacture of driving straps or bands." *Letters Patent sealed.*

FARMER.
HARDY.
10th June 1859.

1408. GEORGE JAMES FARMER, of Hampton Street, Birmingham, in the County of Warwick, Machinist, & GEORGE BRIGGS HARDY, of Alexander Place, Brompton, in the County of Middlesex, Chemist, for an invention for—"Improvements in stair rods and eyes or sockets, which are also applicable for other purposes."
Letters Patent sealed.

HAAS.
10th June 1859.

1409. ALBERT FREDERICK HAAS, of Camomile Street, in the City of London, Merchant, for an invention for—"Improvements in lamp and gas shades or glasses."
Provisional protection only.

PULS.
10th June 1859.

1410. FRANCIS PULS, Chemist, of Roxburgh Terrace, Haverstock Hill, in the County of Middlesex, for an invention for—"Improvements in the treatment of hydrocarbons." *Letters Patent sealed.*

TYLER.
10th June 1859.

1411. SAMUEL WHITFORD TYLER, of Greenwich, in the State of New York, United States of America, for an invention for—"Improvements in harvesters."
Provisional protection only.

SELLERS.
10th June 1859.

1412. WILLIAM SELLERS, of Philadelphia, in the State of Pennsylvania, one of the United States of America, Engineer and Machinist, for an invention for—"Improvements in ovens for baking bread or other substances, which improvements are also applicable for drying, annealing, and other analogous purposes."
Letters Patent sealed.

NEWTON.
13th June 1859.

1429. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of piled fabrics, and in the machinery employed in such manufacture."—*A communication from abroad by Charles Miller, of New York City, in the United States of America, Machinist.* *Provisional protection only.*

SMITH.
14th June 1859.

1430. GEORGE SMITH, of Manor Road, Saint Mary's, Newington, in the County of Surrey, for an invention for—"Improvements in hat-bands." *Letters Patent sealed.*

BROWN.
BATHGATE.
14th June 1859.

1431. WILLIAM BROWN, the younger, of the Town and County of Selkirk, North Britain, Manufacturer, and SIMEON BATHGATE, of the same place, Engineer, for an invention for—"Improvements in machinery or apparatus for carding and treating or preparing fibrous materials. *Letters Patent sealed.*

DIXON.
14th June 1859.

1432. JOHN DIXON, of Bishopwearmouth, in the County of Durham, Engineer, for an invention for—"Improvements in puddling steel." *Provisional protection only.*

COWAN.
14th June 1859.

1433. JOHN COWAN, of the firm of L. Cowan and Sons, of Barnes, in the County of Surrey, Soap Manufacturers, for an invention for—"An improved soap." *Letters Patent sealed.*

WANSBROUGH.
BAIN.
14th June 1859.

1434. JAMES WANSBROUGH, of Bridge Street, Southwark Bridge, in the County of Surrey, Manufacturer, & ALEXANDER BAIN, of Clerkenwell Green, in the County of Middlesex, Telegraph Engineer, for an invention for—"Improvements in effecting communications between parts of railway trains." *Provisional protection only.*

MACDONALD.
14th June 1859.

1435. ALEXANDER MAC DONALD, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for punching patterns or devices upon metallic printing rollers or cylinders." *Letters Patent sealed.*

MAUMENÉ.
ROGELET.
15th June 1859.

1436. EDME JULES MAUMENÉ, Professor of Chymistry, and VICTOR ROGELET, Merchant, both residing in Reims, a Town of France, for an invention for—"Using the 'suint,' or the portion soluble in water of the greasy substance found on the skin and hair of sheep, for the purpose of manufacturing potash and other products." *Letters Patent sealed.*

NEWTON.
15th June 1859.

1437. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of polishing wheels, sticks, and tools."—*A communication from abroad by Thomas J. Mayall, of Roxbury, in the County of Norfolk, and State of Massachusetts, United States of America.* *Letters Patent sealed.*

HUMPHRYS.
15th June 1859.

1438. EDWARD HUMPHRYS, of Deptford, in the County of Kent, for an invention for—"Improvements in marine steam engines." *Letters Patent sealed.*

TAYLOR.
16th June 1859.

1439. JAMES TAYLOR, of the Town and County of Aberdeen, North Britain, Joiner, for an invention for—"Improvements in planes or cutting tools for working in wood." *Provisional protection only.*

LEVY.
16th June 1859.

1440. SIMON LEVY, of the City of Manchester, in the County of Lancaster. Cap Manufacturer, for an invention for—"Improvements in hats, caps, or coverings for the head." *Letters Patent sealed.*

HUGHES.
16th June 1859.

1441. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"An improved night lamp clock."—*A communication from abroad by Louis Montanari, of Lyons, in the Empire of France.* *Letters Patent sealed.*

LUIS.
16th June 1859.

1442. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new siphon meter for liquids."—*A communication from abroad by A. Grenet, of No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

Luis.
16th June 1859.

1443. José Luis, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"An apparatus for regulating individually the pressure, expenditure and light in gas burners."—*A communication from abroad by Edward Ferguson, No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

Barroux.
16th June 1859.

1444. Leon Barroux, of No. 10, Rue Mogador, Paris, in the Empire of France, for an invention for—"A new system of railroad supported on iron soles with or without wood being used." *Complete specification; Letters Patent sealed.*

Birkmyre.
16th June 1859.

1445. William Birkmyre, of Port-Glasgow, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in drying, treating and preparing yarns or thread." *Letters Patent sealed.*

Szerelmey.
16th June 1859.

1446. Nicholas Charles Szerelmey, No. 6, Park Terrace, Brixton Road, in the County of Surrey, for an invention for—"Improvements in preparing combinations of materials for preventing rust in iron and other metals and decay in timber." *Letters Patent sealed.*

Waring.
16th June 1859.

1447. Charles Henry Waring, of Neath Abbey, in the County of Glamorgan, Mining Engineer, for an invention for—"Improvements in safety lamps." *Letters Patent sealed.*

Wilkinson.
16th June 1859.

1448. Charles Wilkinson, of Slaithwaite, in the County of York, Merchant, for an invention for—"Improvements in doubling or twisting silk, cotton, worsted, linen or woollen yarns, or yarns from any other fibrous substance." *Letters Patent sealed.*

Tallent.
16th June 1859.

1449. Thomas Edward Tallent, of the Southwark Bridge Road, Southwark, County of Surrey, Engineer, for an invention for—"Improvements in the manufacture of leather and in machinery for that purpose." *Letters Patent sealed.*

Jones.
16th June 1859.

1450. Thomas Wharton Jones, of 35, George Street, Hanover Square, in the County of Middlesex, Esquire, for an invention for—"Stereoscopic glasses for single pictures." *Letters Patent sealed.*

Mennons.
16th June 1859.

1451. Marc Antoine François Mennons, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved kiln for brick and plaster burning."—*A communication from Mr. A. Mombrun, residing in Paris.* *Complete specification; Letters Patent sealed.*

Smith.
16th June 1859.

1452. Henry Francis Smith, of No. 4, Dale Street, in the City of Manchester, Agent, for an invention for—"Improvements in the manufacture of driving straps or bands." *Letters Patent sealed.*

Cutler.
16th June 1859.

1453. Edward Adams Cutler, of the State of Connecticut, of the United States of America, for an invention for—"A new and useful machine for making horse shoes."—*A communication from Charles H. Perkins, a resident of Putney, of the said State of Connecticut.* *Complete specification; Letters Patent sealed.*

Newton.
16th June 1859.

1454. Alfred Vincent Newton, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in casting cylinders and tubes."—*A communication from abroad by Freeborn Adams, of Somerville, in the State of Massachusetts, United States of America.* *Letters Patent sealed.*

Harmer.
Parsons.
16th June 1859.

1455. John Harmer, of Wellington Villas, Brighton, in the County of Sussex, Gentleman, and William Parsons, of Scotland Street, Brighton, in the County of Sussex, aforesaid, for an invention for—"Improvements in fire-arms." *Provisional protection only.*

Cattell.
16th June 1859.

1456. Thomas Cattell, of 30, Euston Square, in the County of Middlesex, Doctor of Medicine, for an invention for—"Improvements in the manufacture of varnish and lacker." *Letters Patent sealed.*

Orrell.
17th June 1859.

1457. Thomas Orrell, Junior, of Mill Hill, Bolton-le-Moors, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in mules for spinning." *Letters Patent sealed.*

Evette.
17th June 1859.

1458. Henri Evette, of Lisieux, Department of the Calvados, in the Empire of France, Manufacturer, for an invention for—"A new system of bedding." *Letters Patent sealed.*

HUGHES.
17th June 1859.

1459. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in treating and decomposing fatty substances."—*A communication from abroad by Charles Leroy and Joseph Jean Marie Durand, both residing at No. 25, Route de Fontainebleau, at Chantilly, near Paris, in the Empire of France.* *Letters Patent sealed.*

HAMMERSLEY.
17th June 1859.

1460. WILLIAM HENRY HAMMERSLEY, of Leek, in the County of Stafford, Silk Dyer, for an invention for—"Improvements in stringeing, glossing, or finishing silk and apparatus employed therein."—*A communication from abroad by James Leigh, of Seymour, in the State of Connecticut, America.* *Provisional protection only.*

DEAS.
17th June 1859.

1461. DAVID DEAS, of Carneil, in the County of Fife, North Britain, Farmer, for an invention for—"Improvements in reaping-machines." *Letters Patent sealed.*

BROOMAN.
17th June 1859.

1462. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in generating anhydrous steam, and in apparatuses employed therein and connected therewith."—*A communication from abroad by Claudius Marcius Chaney Duplay, of Firminy, Loire, France.* *Provisional protection only.*

VASSEROT.
17th June 1859.

1463. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Improvements in the construction of stereoscopes."—*A communication from Henry Adolphe Corbin, residing in Paris, in the Empire of France.* *Letters Patent sealed.*

GUIBLET.
17th June 1859.

1464. JULES JEAN LOUIS GUIBLET, of 11, Wilmington Square, Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in watches." *Provisional protection only.*

NEWTON.
17th June 1859.

1465. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved means for assorting substances of different specific gravities."—*A communication from abroad by Désiré Marchal, of Brussels.* *Letters Patent sealed.*

COMBE.
SMALPAGE.
17th June 1859.

1466. JOHN COMBE, of Leeds, in the County of York, Engineer, and ROBERT SMALPAGE, of the same place, Woollen Draper, for an invention for—"Improvements in winding and spinning machinery, and in arranging and securing a uniform delivery from cops to be used as weft or warp or for other purposes." *Letters Patent sealed.*

LUIS.
18th June 1859.

1467. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new system of windmill."—*A communication from abroad by Bernard Zacharie Lethiers, No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

COX.
18th June 1859.

1468. JAMES COX, of Wenlock Road, City Road, in the County of Middlesex, Printing Press Manufacturer and Engineer, for an invention for—"Improvements in machinery or apparatus for cutting rags for paper makers." *Letters Patent sealed.*

JEFFERY.
18th June 1859.

1469. ALFRED JEFFERY, of the Commercial Road, in the Parish of Limehouse, in the County of Middlesex, Manufacturer, for an invention for—"An improved mode of giving rotary motion to projectiles fired from rifled fire arms." *Letters Patent sealed; no specification filed.*

BRADSHAW.
18th June 1859.

1470. RICHARD BRADSHAW, of Camden Town, Dentist, for an invention for—"Improvements in rotary steam-engines and pumps." *Provisional protection only.*

HARPER.
STOKES.
WALKER.
18th June 1859.

1471. RICHARD HARPER, Lace Maker, and ROBERT STOKES, Lace Maker, and THOMAS WALKER, Clock Maker, each of Derby, in the County of Derby, for an invention for—"An improvement in the manufacture of chenille, bonnet wreaths and bonnet feathers." *Letters Patent sealed.*

FIRTH.
CRABTREE.
18th June 1859.

1472. JOSIAH FIRTH, of Heckmondwike, near Leeds, in the County of York, Manufacturer, and JAMES CRABTREE, of Mill Bridge, Leeds, in the County of York, Overlooker, for an invention for—"Improvements in the manufacture of carpets." *Provisional protection only.*

PARKER. th June 1859.

1473. GEORGE JUBILEE PARKER, of Church Street, Stoke Newington, in the County of Middlesex, Carpenter, for an invention for—"A self acting apparatus for giving alarm of fire, which is also useful in checking the same." *Provisional protection only.*

CLARK. th June 1859.

1474. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"An improved method of supplying furnaces with hot air."—*A communication from abroad by Messrs. Addison Calvin Fletcher, of Cincinnati, Ohio, and George Ambrose Redman, of New York City, Gentleman, United States of America.* *Letters Patent sealed.*

AERTS. th June 1859.

1475. PAUL FRANÇOIS AERTS, formerly of Brussels, in the Kingdom of Belgium, but now residing in London, England, Civil Engineer, for an invention for—"Improved apparatus for lubricating railway rolling stock and the moving parts of machinery." *Letters Patent sealed.*

RANSLEY. th June 1859.

1476. JAMES RANSLEY, of No. 19, Prince's Terrace, Islington, in the County of Middlesex, Carriage Builder, for an invention for—"An improved brake for retarding railway and other carriages." *Provisional protection only.*

RANSLEY. th June 1859.

1477. JAMES RANSLEY, of No. 19, Princes Terrace, Islington, in the County of Middlesex, Carriage Builder, for an invention for—"An improved omnibus." *Provisional protection only.*

DEWEY. th June 1859.

1478. LORING DANIEL DEWEY, of the United States of America, now of 4, Southampton Buildings, Chancery Lane, in the County of Middlesex, England, for an invention for—"Improvements in spring seats for chairs, sofas, couches, carriages, and other similar articles."—*A communication from Charles Robinson, residing at Massachusetts, in the United States of America.* *Provisional protection only.*

COX. FRANKHAM. FRANKHAM. th June 1859.

1479. JOHN COX, Saddlers'-Ironmonger, of Birmingham, in the County of Warwick, and SAMUEL FRANKHAM, and MOSES FRANKHAM, Bit, Stirrup, and Spur Manufacturers, of Walsall, in the County of Stafford, for an invention for—"Certain improvements in spurs for military and general use." *Letters Patent sealed.*

LAMING. th June 1859.

1480. RICHARD LAMING, of Hampstead, in the County of Middlesex, for an invention for—"Improvements in purifying gas, and in obtaining and reproducing materials useful for that purpose." *Letters Patent sealed.*

DIERICKX. th June 1859.

1481. CHARLES LOUIS JOSEPH DIERICKX, Director of the Paris Mint, of the Hotel des Monnais, in the City of Paris, for an invention for—"Improvements in coining." *Letters Patent sealed.*

EDWARDS. th June 1859.

1482. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of iron rails." *Provisional protection only.*

NEWTON. th June 1859.

1483. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for blowing off water from steam-boilers."—*A communication from abroad by James Havey Washington, of Baltimore, in the United States of America.* *Letters Patent sealed.*

HAWKES. th June 1859.

1484. ALFRED JAMES HAWKES, of Jewin Crescent, in the City of London, for an invention for—"An improved triturating apparatus." *Provisional protection only.*

ROWAN. th June 1859.

1485. WILLIAM ROWAN, of the firm of John Rowan & Sons, Engineers, of Belfast, in the County of Antrim, for an invention for—"Improvements in the generation of steam." *Letters Patent sealed.*

CLARKSON. th June 1859.

1486. THOMAS CHARLES CLARKSON, of No. 56, Stamford Street, Blackfriars, in the County of Surrey, Manufacturer, for an invention for—"Improvements in the manufacture of boots, shoes and other articles." *Provisional protection only.*

HOW. st June 1859.

1487. ANDREW PEDDIE HOW, of No. 81, Mark Lane, in the City of London, Engineer, for an invention for—"Improvements in self supplying distilling apparatus and in apparatus for cooking combined therewith." *Provisional protection only.*

TOMKINS. st June 1859.

1488. GEORGE TOMKINS, of Pontymister, near Newport, in the County of Monmouth, Tin Plate Worker, for an invention for—"Improvements in coating metals and in the apparatus connected therewith." *Provisional protection only.*

GWYN. 21st June 1859. 1489. EDWARD GWYN, of Islington, in the County of Middlesex, Gas Engineer, for an invention for—"Improvements in breech-loading fire-arms."—*A communication from abroad by Henry Gross, residing in Ohio, U.S.A.* *Letters Patent sealed.*

GIBBS. 21st June 1859. 1490. STEPHEN GIBBS, of Eddington, Parish of Herne, near Canterbury, in the County of Kent, for an invention for—"Improvements in apparatus for slinging horses, mules, and other animals." *Provisional protection only.*

NEWTON. 21st June 1859. 1491. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in tailors' and other shears."—*A communication from abroad by James H. Roome, of New York, in the United States of America.* *Letters Patent sealed.*

MEIKLE. 21st June 1859. 1492. JAMES MEIKLE, of 79, Rumford Street, Glasgow, for an invention for—"Improvements in coating iron ships with asphalte, which improvements are also applicable to coating other surfaces." *Letters Patent sealed.*

PARKES. 21st June 1859. 1493. ALEXANDER PARKES, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of cylinders and tubes of copper and alloys of copper." *Letters Patent sealed.*

OWEN. 21st June 1859. 1494. LEMUEL DOW OWEN, of No. 192, Tottenham Court Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for manufacturing bolts and nails."—*A communication by foreigners residing abroad, videlicet, by Messrs. Buck and Company, Engineers, of Lebanon, New Hampshire, in the United States of America.* *Letters Patent sealed.*

FULLER. 21st June 1859. 1495. WILLIAM COLES FULLER, of 2, Bucklersbury, Cheapside, London, Patent Spring Manufacturer, for an invention for—"Improvements in india-rubber shackles, and in springs for carriages, and the metal fittings connected therewith." *Letters Patent sealed.*

OLIVER. 21st June 1859. 1496. EBENEZER OLIVER, of King William Street, in the City of London, for an invention for—"Improved medicinal mixtures for the cure of rheumatism, tic-doloreux, lumbago, cramp, sciatica, and such like complaints." *Letters Patent sealed; no specification filed.*

SMITH. 22nd June 1859. 1497. ROBERT SMITH, of Longridge, near Preston, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in apparatus applicable to looms for weaving fancy fabrics." *Letters Patent sealed.*

BUCKWELL. 22nd June 1859. 1498. WILLIAM BUCKWELL, of the Phœnix Stone Works, East Greenwich, in the County of Kent, Artificial Stone Manufacturer, for an invention for—"Manufacturing materials for building and other structural purposes and of the machinery applied thereto, which last invention is applicable to other purposes." *Provisional protection only.*

BARCLAY. 22nd June 1859. 1499. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, Engineer, for an invention for—"Improvements in steam hammers and pile driving machines." *Letters Patent sealed.*

BOUSFIELD. 22nd June 1859. 1500. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for winding thread of cotton or linen or other fibrous materials, or sewing silk or similar articles upon bobbins or spools."—*A communication from abroad by Lawson C. Ives, of Hartford, Connecticut, United States of America.* *Complete specification; Letters Patent sealed.*

CLARINI. 22nd June 1859. 1501. CHARLES CLARINI, of New York, U.S.A., for an invention for—"Making wrought metal nails by machinery." *Letters Patent sealed.*

GOULDING. 22nd June 1859. 1502. WILLIAM GOULDING, of the Borough of Leicester, in the County of Leicester, Ploughmaker, for an invention for—"Improvements in the construction of ploughs." *Provisional protection only.*

KUKLA. 22nd June 1859. 1503. FRANCIS XAVIER KUKLA, Chemist, of 121, Pentonville Road, in the County of Middlesex, for an invention for—"Improvements in projectiles." *Provisional protection only.*

RUSSELL. 22nd June 1859. 1504. WILLIAM RUSSELL, of the Borough of Leicester, in the County of Leicester, Ironmonger, for an invention for—"Improvements in wheels for ploughs, cultivators, and other implements or carriages." *Letters Patent sealed.*

MOORE. 22nd June 1859.

1505. THOMAS MOORE, of Lupus Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in knapsacks and mess-tins."
Provisional protection only.

APPERLY. CLISSOLD. 22nd June 1859.

1506. JAMES APPERLY, Cloth Manufacturer, and WILLIAM CLISSOLD, Engineer, both of Dudbridge, in the County of Gloucester, for an invention for—"Improvements in the manufacture of wheels for carriages and engines."
Letters Patent sealed.

MENNONS. 23rd June 1859.

1507. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in machinery for the manufacture of bolts and rivets."—*A communication from J. L. Vergniais, residing in Paris.* *Letters Patent sealed.*

LUIS. 23rd June 1859.

1508. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1 B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A machine for corking bottles."—*A communication from abroad by Jacques Peury, No. 10, Rue Mogador, Paris, in the Empire of France.*
Provisional protection only.

VARLEY. VARLEY. 23rd June 1859.

1509. CROMWELL FLEETWOOD VARLEY, of No. 4, Fortess Terrace, Kentish Town, and CORNELIUS JOHN VARLEY, No. 7, York Place, Kentish Town, St. Pancras, Middlesex, for an invention for—"Improvements in proving electric conductors, and in the apparatus connected therewith." *Letters Patent sealed.*

DESSALES. 23rd June 1859.

1510. ALEXIS JEAN DESSALES, of 13, Rue des Enfants Rouges, Paris, in the Empire of France, for an invention for—"An improvement in the working and securing of sliding tubes applicable to gas chandeliers, lamps, and other purposes."
Letters Patent sealed.

HUGHES. 23rd June 1859.

1511. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in the manufacture of artificial sand-stone, bricks, tiles and similar articles."—*A communication from abroad by Léon and Edouard Pavin de Lafarge, Merchants, residing at Viviers, Département de l'Ardèche, in the Empire of France.*
Letters Patent sealed.

GRIMES. 23rd June 1859.

1512. GEORGE CHARLES GRIMES, of Wandsworth, in the County of Surrey, for an invention for—"Improvements in cigar or such like lights, and in the means of producing them." *Letters Patent sealed.*

PRINCE. 23rd June 1859.

1513. ALEXANDER PRINCE, of the Office for Patents, 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in alarum locks and latches." *Provisional protection only.*

DOULTON. 23rd June 1859.

1514. HENRY DOULTON, of Lambeth, for an invention for—"Improvements in earthenware jars and bottles." *Letters Patent sealed.*

NEWTON. 23rd June 1859.

1515. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in springs for resisting sudden and continuous pressure."—*A communication from abroad by Charles Perratone, Engineer, and Messrs. J. F. Cail & Co., Mechanicians, of Paris, in the Empire of France.* *Provisional protection only.*

LISTER. GARRICK. 24th June 1859.

1516. WILLIAM LISTER, Junior, Master Mariner, and THOMAS GILBERT GARRICK, Agent, both of Sunderland, in the County of Durham, for an invention for—"Improvements in ships' windlasses and other like apparatuses, applicable also to the steering of ships." *Letters Patent sealed.*

MILLS. 24th June 1859.

1517. JAMES MILLS, of Heaton Norris, in the County of Lancaster, Machinist, for an invention for—"Improvements in the manufacture of keys and gibs, and in the machinery employed therein." *Letters Patent sealed.*

CHESNEAU. 24th June 1859.

1518. AUGUSTE CHESNEAU, of 29, Boulevart St. Martin, Paris, in the Empire of France, Merchant, for an invention for—"Improvements in paddle-wheels."
Letters Patent sealed.

CLARK. 24th June 1859.

1519. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in sewing-machines."—*A communication from abroad by Mr. James Snow Goodridge, of 29, Boulevart St. Martin, Paris, Merchant.* *Provisional protection only.*

REDRUP.
24th June 1859.

1520. GEORGE REDRUP, of the Loughborough Brewery, Loughborough, in the County of Leicester, Brewer, for an invention for—"Machinery for the cutting of shives, bungs, corks, spiles, and vent or other pegs." *Letters Patent sealed.*

HORNSBY.
24th June 1859.

1521. RICHARD HORNSBY, Junior, of Spittlegate Iron Works, Grantham, in the County of Lincoln, for an invention for—"Improvements in ploughs and in giving motion to ploughs and other agricultural implements by steam power." *Letters Patent sealed; no specification filed.*

FAURE.
PERNOD.
24th June 1859.

1522. PROSPER FAURE, and JULES PERNOD, of Avignon, in the Empire of France, for an invention for—"An improved process for utilising the residues of madder in the manufacture of garancine and other preparations of madder." *Letters Patent sealed.*

DRURY.
24th June 1859.

1523. JOHN DRURY, of Exley, near Halifax, in the County of York, Engineer, for an invention for—"Improvements in steam-engines and boilers." *Provisional protection only.*

HOWARD.
25th June 1859.

1524. THOMAS HOWARD, of King and Queen Iron Works, Rotherhithe, in the County of Surrey, Engineer, for an invention for—"Improvements in condensing steam in engines where superheated steam is used." *Letters Patent sealed.*

SLUCE.
MURRELL.
HUDSON.
25th June 1859.

1525. WILLIAM JAMES SLUCE, of Bethnall Green Road, in the County of Middlesex, OWEN MURRELL, of Edward Street, Bethnall Green Road, aforesaid, & WILLIAM HUDSON, of Hackney Road, in the County of Middlesex, for an invention for—"An improved method of generating steam." *Provisional protection only.*

WILLIAMS.
25th June 1859.

1526. CHARLES WYE WILLIAMS, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*

NEWTON.
25th June 1859.

1527. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Apparatus for exhibiting stereoscopic pictures."—*A communication from abroad by J. Stuart Perry, of Newport, in the State of New York, United States of America.* *Letters Patent sealed.*

ROBERTS.
25th June 1859.

1528. JOHN ROBERTS, of Upnor, in the County of Kent, Terra Cotta Manufacturer, for an invention for—"Improvements in filters." *Letters Patent sealed.*

BODEN.
CLARK.
25th June 1859.

1529. JOHN BODEN, of Portswood Road, Southampton, Engineer, and WILLIAM CLARK, of Northern Road, Southampton aforesaid, Boiler Maker, for an invention for—"Improvements in apparatus for superheating steam." *Letters Patent sealed.*

RUSSELL.
25th June 1859.

1530. SAMUEL RUSSELL, of Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in breech-loading fire-arms and in projectiles to be used therewith." *Provisional protection only.*

COPPIN.
25th June 1859.

1531. WILLIAM COPPIN, of Strand Foundry, Londonderry, Marine Architect and Engineer, for an invention for—"Improvements in apparatus for raising sunken and stranded vessels and their cargoes, and for raising and lowering other bodies into and out of the water, part of which improvements are applicable to raising weights generally." *Letters Patent sealed.*

DICK.
27th June 1859.

1532. ROBERT DICK, of the City of Toronto, in the County of York, and Province of Canada, for an invention for—"Keeping accounts current in printed form, for addressing cards, circulars, papers and periodicals of all kinds with great rapidity, by the aid of a very simple machine which is a constituent part of this invention." *Letters Patent sealed.*

WRIGLEY.
WRIGLEY.
27th June 1859.

1533. GEORGE WRIGLEY, of the firm of Messieurs Cryer, Lees and Company, of Dukinfield, in the County of Chester, Machine Makers, and THOMAS HIRAM WRIGLEY, of Mossley, in the County of York, Overlooker, for an invention for—"Improvements in self-acting mules for spinning and doubling." *Letters Patent sealed.*

FLEETWOOD.
27th June 1859.

1534. DANIEL JOSEPH FLEETWOOD, of Birmingham, in the County of Warwick, Copper Agent, for an invention for—"An improvement or improvements in shaping metals." *Letters Patent sealed.*

BURTON.
27th June 1859.

1535. BETHEL BURTON, of Brooklyn, in the State of New York, United States of America, for an invention for—"Improvements in breech-loading fire-arms."
Letters Patent sealed.

SMITH.
27th June 1859.

1536. GILBERT SMITH, of Buttermilk Falls, Orange County, in the State of New York, United States of America, Engineer, for an invention for—"An improved construction of primer for fire-arms." *Provisional protection only.*

LEIGH.
LINE.
27th June 1859.

1537. THOMAS LEIGH, of St. Mary Cray, in the County of Kent, Millwright, and JOB LINE, of the same place, Paper Maker, for an invention for—"An improvement in paper-making machinery." *Letters Patent sealed.*

DAWES.
CARR.
28th June 1859.

1538. GEORGE DAWES, of Milton Iron Works, in the Parish of Hoyland, in the County of York, Ironmaster, and CHARLES JOHN CARR, of Hoyland aforesaid, Engineer, for an invention for—"Certain improvements in atmospheric and vacuum hammers and stamps, part of which improvements is also applicable to steam and other engines." *Letters Patent sealed.*

NEWTON.
28th June 1859.

1539. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in variable cut-off gear for producing expansion in steam and other motive-engines."—*A communication from abroad by Ambrose Foster, Noah Sutton, and James Stephens, all of New York.* *Letters Patent sealed.*

NEWTON.
28th June 1859.

1540. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting corks."—*A communication from abroad by Edward Conroy, of Boston, in the United States of America.* *Letters Patent sealed.*

BAILLIE.
28th June 1859.

1541. JOHN MARIA JOSEPH BAILLIE, of No. 15, St. Mary Axe, in the City of London, for an invention for—"A new process for tanning hides and skins."—*A communication from Monsieur A. Paulmier, resident at Paris, in the Empire of France.*
Letters Patent sealed.

NASH.
29th June 1859.

1542. JAMES NASH, of Mill Wall, in the County of Middlesex, Smith, for an invention for—"An improvement in the form and in the method of holding and releasing the tumbling hook of disengaging blocks."
Letters Patent sealed; specification filed by order.

HALL.
29th June 1859.

1543. GEORGE HALL, Jr., of Montrose, in the County of Forfar, North Britain, Farmer, for an invention for—"Improvements in reaping machines."
Letters Patent sealed; no specification filed.

McDOUGALL.
29th June 1859.

1544. ALEXANDER MCDOUGALL, of Manchester, in the County of Lancaster, Chemist, for an invention for—"Improvements in the preparation of disinfecting and antiseptic substances." *Provisional protection only.*

WRAY.
WRAY.
29th June 1859.

1545. WILLIAM WRAY, and JOHN WRAY, both of Leeming, near Bedale, Yorkshire, for an invention for—"Certain improvements in reaping-machines."
Letters Patent sealed.

WIGHT.
29th June 1859.

1546. THOMAS WIGHT, of Middlesborough-on-Tees, in the County of York, Foundry Manager, for an invention for—"Improvements in the apparatus used in the manufacture of cast metal pipes and castings, termed corebars or spindles and chaplets." *Letters Patent sealed.*

WILKINSON.
WHITE.
29th June 1859.

1547. WILLIAM WILKINSON, of Bayswater, in the County of Middlesex, Engineer, and DAVID WHITE, of High Holborn, in the same County, Surveyor, for an invention for—"Improvements in apparatuses for holding, regulating, compressing and burning gas and other gaseous fluids, parts of which apply to the holding of liquids."
Provisional protection only.

TIREBUCK.
29th June 1859.

1548. ISAAC TIREBUCK, of Windsor Court, in the City of London, Printer, for an invention for—"Improved machinery for printing from engraved plates."
Letters Patent sealed.

WILLIAMSON.
29th June 1859.

1549. WILLIAM JOHN THOMPSON WILLIAMSON, of 37, Gerrard Street, Soho, in the County of Middlesex, for an invention for—"Improvements in gas burners."
Letters Patent sealed.

CHAPMAN.
29th June 1859.

1550. GEORGE CHAPMAN, of Rutland Street, Leicester, for an invention for—"Improvements in knitting-machines." *Letters Patent sealed.*

GRIFFIN. 29th June 1859.

1551. JOHN JOSEPH GRIFFIN, of 119 and 120, Bunhill Row, in the County of Middlesex, for an invention for—"Improvements in gas furnaces suitable for fusing refractory metals." *Letters Patent sealed.*

BAKER. 29th June 1859.

1552. GEORGE BAKER, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of metallic lattice or trellis work."—*A communication from abroad by Owen Carraway, late of New York.* *Letters Patent sealed.*

FRANCIS. 30th June 1859.

1553. EDWARD FRANCIS, of Wrexham, in the County of Denbigh, Grocer, for an invention for—"Apparatus for facilitating the 'making up' or packing of sugar and other articles of grocery and other substances." *Provisional protection only.*

GUEYTON. 30th June 1859.

1554. ALPHONSE GUEYTON, of Paris, in the French Empire, Jeweller, for an invention for—"Improvements in enamelling articles of jewellery, applicable also to other similar purposes." *Provisional protection only.*

KAY. MANOCK. WHITTAKER BOOTH. 30th June 1859.

1555. RICHARD KAY, Cotton Spinner, JOHN MANOCK, Manager, JOHN WHITTAKER, Mechanic, and THOMAS BOOTH, Operative Cotton Spinner, all of Heywood, in the County of Lancaster, for an invention for—"Improvements in machinery for slubbing, roving, spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

BESTWICK. 30th June 1859.

1556. WILLIAM BESTWICK, of Salford, near Manchester, in the County of Lancaster, Crinoline-steel Manufacturer, for an invention for—"Improvements in crinoline-steel for ladies' dresses, skirts, and other similar purposes." *Provisional protection only.*

BROOMAN. 30th June 1859.

1557. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in lithographic and chromolithographic presses."—*A communication from abroad by Jean Théodore Dupuy, of Paris.* *Letters Patent sealed.*

BOIGEOL. 30th June 1859.

1558. LOUIS BOIGEOL, of Giromagny, near Belfort, Town in the French Empire, Manufacturer, for an invention for—"Improved machinery for winding and twisting fibrous materials." *Letters Patent sealed.*

BELL. 30th June 1859.

1559. THOMAS BELL, of Plaistow, in the County of Essex, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

LAWSON. COTTON. 30th June 1859.

1560. JOHN LAWSON, of Leeds, in the County of York, Engineer, and STEPHEN COTTON, of Leeds aforesaid, Draftsman, for an invention for—"Certain improvements in machinery for roving, twisting and spinning flax, cotton, wool and other fibrous substances." *Letters Patent sealed.*

TOWER. 30th June 1859.

1561. LEVI LINCOLN TOWER, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful machine for dampening and wetting paper, etc."—*A communication from John A. Lynch, a resident of Boston, of the said State of Massachusetts.* *Complete specification; Letters Patent sealed.*

WILKINSON. 30th June 1859.

1562. JEPTHA AVERY WILKINSON, of Brooklyn, in the State of New York, United States of America, for an invention for—"Improvements in printing presses and apparatus connected therewith." *Letters Patent sealed.*

SUMMERSCALES. SUMMERSCALES. 30th June 1859.

1563. WILLIAM SUMMERSCALES, the elder, and JOHN SUMMERSCALES, of Keighley, in the County of York, Machine Makers, for an invention for—"An improved wringing and mangling machine." *Provisional protection only.*

BERNARD. 30th June 1859.

1564. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in uniting certain parts of boots and shoes and in the means employed therein." *Letters Patent sealed.*

BEARD. 1st July 1859.

1565. JAMES RAIT BEARD, of the City of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the manufacture of artificial whalebone applicable to umbrellas, parasols, stays, hats, bonnets, reeds, crinolines and other similar purposes." *Provisional protection only.*

JONES. 1st July 1859.

1566. ABEL JONES, of Blackburn, in the County of Lancaster, Mechanic, for an invention for—"Improvements in machinery or apparatus for drawing-in, twisting or looming textile materials." *Provisional protection only.*

STANDEN. 1st July 1859.

1567. BRIDGE STANDEN of Salford, in the Parish of Manchester, and County of Lancaster, Chymist, for an invention for—"Improvements in the deodorizing and separation of fecal and putrescent organic matters, in the preparation or manufacture therefrom of a portable artificial manure or fertilizing compound, and in apparatus to be employed in such preparation or manufacture." *Letters Patent sealed.*

CARRON. 1st July 1859.

1568. ANTON CARRON, of 25, Little Moorfields, in the City of London, for an invention for—"An improved loom for the manufacture of silk and other velvet."—*A communication from abroad by Henri Carron, of 2, Rue St. Jean, Lyons, in the Empire of France.* *Provisional protection only.*

ARDASEER. 1st July 1859.

1569. NESSERWANJEE ARDASEER, British Subject, of Bombay, East Indies, for an invention for—"An improved method of making steam-boilers." *Letters Patent sealed.*

HOWELL. 1st July 1859.

1570. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in the treatment of iron." *Provisional protection only.*

CARTER. 1st July 1859.

1571. EDWARD WILSON CARTER, of Rochdale, in the County of Lancaster, Cutler, for an invention for—"Improvements in machinery or apparatus for sewing." *Provisional protection only.*

WOOD. ROGERS. 1st July 1859.

1572. EDWIN ARCHER WOOD, of Victoria Terrace, Notting Hill, in the County of Middlesex, of the Peninsular and Oriental Steam Navigation Company, and MARTIN DADD ROGERS, of Bromley, in the County of Middlesex, Shipwright, for an invention for—"Improved apparatus for raising and lowering boats." *Letters Patent sealed.*

FISHER. 1st July 1859.

1573. SAMUEL FISHER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in ordnance and projectiles." *Letters Patent sealed.*

ROYDS. HARCOURT. 1st July 1859.

1574. ROBERT ROYDS, and ANTHONY HARCOURT, both of Woolston, in the County of Hants, Engineers, for an invention for—"An improved composition for protecting the bottoms of ships and other structures of iron." *Letters Patent sealed.*

RIDDLE. 1st July 1859.

1575. WILLIAM RIDDLE, of Westbourne Terrace, Barnsbury Park, Islington, in the County of Middlesex, for an invention for—"Improvements in advertisement show cards or boards." *Provisional protection only.*

KENWORTHY. 1st July 1859.

1576. WILLIAM EDWARD KENWORTHY, of Water Lane, Leeds, in the County of York, Agricultural Chemist and Shoddy Merchant, for an invention for—"Improvements in purifying gas and saving of lime in the said purifying." *Provisional protection only.*

BOGG. 1st July 1859.

1577. MARK BOGG, of Duggleby, near Malton, in the County of York, Joiner, for an invention for—"Improvements in washing-machines." *Letters Patent sealed.*

PENNYCOOK. 2nd July 1859.

1578. CHARLES HILL PENNYCOOK, of Glasgow, in the County of Lanark, North Britain, Tinsmith, for an invention for—"Improvements in ventilators and ventilating flue or chimney tops." *Provisional protection only.*

MORVILLE. 2nd July 1859.

1579. ROBERT WHITESIDE MORVILLE, of Pendleton, Salford, in the County of Lancaster, late of the United States, Engraver, for an invention for—"Improvements in mechanism or arrangements for suspending and securing window sashes."—*A communication from abroad by Porter A. Gladwin, of Pawtucket, Rhode Island, United States.* *Letters Patent sealed.*

HART. 2nd July 1859.

1580. THOMAS JAMES HART, of Birmingham, in the County of Warwick, Gun Barrel Manufacturer, for an invention for—"Improvements in breech-loading fire-arms." *Letters Patent sealed.*

GUY. BROUGH. COTTON. 2nd July 1859.

1581. CHARLES GEORGE GUY, of Liverpool, in the County of Lancaster, Engineer and Boiler Maker, JAMES BROUGH, of the same place, Boiler Maker, and ROBERT COTTON, of the same place, Gentleman, for an invention for—"An improved upright steam boiler." *Provisional protection only.*

FOURMAUX. 2nd July 1859.

1582. EDOUARD FOURMAUX, Junior, of Provin, in the Department of the North, Empire of France, for an invention for—"A new weaving-loom." *Provisional protection only*

WILLIAMS. 2nd July 1859.

1583. CHARLES HANSON GREVILLE WILLIAMS, of 39, Regent Square, Gray's Inn Road, in the County of Middlesex, for an invention for—"Improvements in dyeing fabrics and yarns." *Letters Patent sealed.*

HIRSCH. 2nd July 1859.

1584. HERMANN HIRSCH, of Berlin, in the Kingdom of Prussia, for an invention for—"Improvements in screw propellors." *Letters Patent sealed.*

HARRIS. 2nd July 1859.

1585. HENRY HARRIS, of Newport, Isle of Wight, for an invention for—"An improved method of connecting together the parts of which bedsteads and other furniture are composed." *Provisional protection only.*

SIMON. 4th July 1859.

1586. JOSEPH SIMON, residing in Paris, Passage des Petites Ecuries, No. 5, for an invention for—"A composition named Zeiodelite, a kind of paste which becomes as hard as stone, is unchangeable by the air, and being proof against the action of acids may replace lead and other substances for various uses." *Letters Patent sealed.*

HOLLINGWORTH. 4th July 1859.

1587. JAMES HOLLINGWORTH, of the Clyde Paper Mills, Eastfield, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in machinery or apparatus for the manufacture of paper." *Letters Patent sealed.*

LANE. 4th July 1859.

1588. ROBERT LANE, of Cirencester, in the County of Gloucester, Machinist, for an invention for—"Improvements in mills for grinding grain and other materials." *Provisional protection only.*

HOWELLS. HOWELLS. 4th July 1859.

1589. HENRY CHARLES HOWELLS, of 120, Duane Street, New York, in the State of New York, and JOSEPH CHARLES HOWELLS, of Madison, in the State of Wisconsin, both in the United States of America, for an invention for—"Improvements in the mode of registering the number of persons entering or leaving public conveyances or places of public resort, and of determining the value of the entry or fare." *Letters Patent sealed.*

BROOMAN. 4th July 1859.

1590. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved hemmer or apparatus to be used in connexion with sewing machines for turning over and presenting the edge of the material to be hemmed properly to the needle."—*A communication from abroad by Joseph Poole Pirsson, of New York.* *Letters Patent sealed.*

BROOMAN. 4th July 1859.

1591. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A cementing powder or mixture and process for cementing, converting, refining, strengthening, and steelifying iron."—*A communication from abroad by Job Johnson, of East Brooklyn, Long Island, in the State of New York.* *Letters Patent sealed.*

NEWTON. 4th July 1859.

1592. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the process of and improved apparatus for separating metals from their ores."—*A communication from abroad by Lewis Soloman of New York, in the United States of America.* *Letters Patent sealed.*

MCINTOSH. 5th July 1859.

1593. JAMES MCINTOSH, of Glasgow, in the County of Lanark, North Britain, Tanner and Currier, for an invention for—"Improvements in the manufacture of leather driving belts." *Letters Patent sealed.*

KNAPTON. AITCHISON. 5th July 1859.

1594. WILLIAM KNAPTON, of Albion Foundry, Monkbar, in the City of York, and ADAM AITCHISON, of Knottingley, in the County of York, for an invention for—"Improvements in the manufacture of gas." *Letters Patent sealed.*

BARLOW. 5th July 1859.

1595. CHARLES BARLOW, of 89, Chancery Lane, London, Patent Agent, for an invention for—"Improvements in capstans."—*A communication from abroad by Samuel Huse, of Boston, United States of America.* *Provisional protection only.*

BEAULIEU. 5th July 1859.

1596. ARSÈNE BEAULIEU, of 25, Rue du Chemin de Fer, Porte de Cologne, Brussels, in the Kingdom of Belgium, Mechanical Engineer, for an invention for—"Improvements in crinolines, and in machinery for manufacturing springs for such and other purposes."—*A communication from abroad by Henri Theodore Van Eycken, a person resident at Rue Terre-Neuve, No. 25, Brussels.* *Letters Patent sealed.*

NEWTON. 5th July 1859.

1597. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for moving iron or other metals while the same is in process of manufacture at the rolls."—*A communication from abroad by Charles Hewitt, of the City of Trenton, in the State of New Jersey, one of the United States of America.*

Letters Patent sealed.

NALDER. NALDER. 5th July 1859.

1598. JAMES HALL NALDER, of Alvescott, in the County of Oxford, Farmer, and THOMAS NALDER, of Challow Works, in the County of Berks, Engineer and Agricultural Implement Manufacturer, for an invention for—"Improvements in winnowing and dressing grain and seeds, and in the machinery or apparatus employed therein."

Letters Patent sealed.

WATKINS. PUGH. 5th July 1859.

1599. JOHN WATKINS, of the Cwmamman Colliery, Aberdare, in the County of Glamorgan, Agent, & JAMES PUGH, of the same place, Mechanic, for an invention for—"Improvements in lubricating wheels." *Letters Patent sealed.*

WARD. 6th July 1859.

1600. WILLIAM HENRY WARD, of the City of Auburn, in the County of Cayuga, and State of New York, one of the United States of North America, for an invention for—"Ocean marine signal telegraphing for day and night, whereby messages and communications on all occasions and subjects may be given with clearness and despatch within seeing distance day or night." *Provisional protection only.*

LUIS. 6th July 1859.

1601. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex (Patent Agent), for an invention for—"An apparatus for washing wool manufactured or not and all other matters."—*A communication from abroad by Eugène Pasquier, No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

LUIS. 6th July 1859.

1602. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"An improved mode of manufacture of wheel tires for railway carriages and engines by means of the herein described apparatus."—*A communication from abroad by Duplay, Vidal, Lachaise & Co., No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

HORTON. 6th July 1859.

1603. JOSHUA HORTON, of Dudley, in the County of Worcester, Machinist, for an invention for—"A new or improved gas meter." *Provisional protection only.*

HAGAN. 6th July 1859.

1604. CHARLES HAGAN, Clerk of Works, Tower of London, for an invention for—"Improvements in apparatus for curing smoky chimneys and preventing down draught." *Letters Patent sealed.*

HASKARD. 6th July 1859.

1605. SAMUEL BURTON HASKARD, of Wollaton Street, in the Town and County of the Town of Nottingham, Spring Point and Guide Manufacturer, for an invention for—"Improvements in the manufacture of hook guides used in machines for the making of lace or other fabrics." *Letters Patent sealed.*

LLOYD. 6th July 1859.

1606. SAMPSON LLOYD, of Wednesbury, Staffordshire, for an invention for—"Improvements in the manufacture of cast steel tyres." *Letters Patent sealed.*

SCHWARTZKOPFF. PHILIPPSON. 6th July 1859.

1607. LOUIS SCHWARTZKOPFF, of Berlin, and FERDINAND CARL PHILIPPSON, of Dusseldorf, for an invention for—"Improvements in steam hammers, and in machines for cutting files and for planing and grooving iron, stone, and other substances." *Letters Patent sealed.*

SEED. STEEL. 6th July 1859.

1608. BENJAMIN SEED, of Keighley, Grease Manufacturer, and THOMAS STEEL, of Bradford, Foreman, both in the County of York, for an invention for—"Improvements in apparatus employed in the treatment of soap suds or other saponaceous or oily matters." *Letters Patent sealed.*

EDMONDS. 6th July 1859.

1609. JOHN THOMAS EDMONDS, of Prestwood, Great Missenden, in the County of Bucks, Ironfounder, for an invention for—"Improvements in winnowing or corn cleaning machines, parts of which are applicable for other screening or sifting purposes." *Letters Patent sealed.*

JONES. 7th July 1859.

1610. DAVID THOMAS JONES, of Headless Cross, in the Parish of Ipsley, in the County of Warwick, Agricultural Implement Maker, for an invention for—"Improvements in ploughs." *Provisional protection only.*

VASSEROT. 7th July 1859.

1611. CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"An improved form of regulator chiefly applicable to water-wheels."—*A communication from Ferdinand Gabet, residing at Bermerain, Nord, in the Empire of France.* *Provisional protection only.*

LE MAT. 7th July 1859.

1612. FRANCOIS ALEXANDRE LE MAT, of New Orleans, in the State of Louisiana, in the United States of America, Colonel, Aide-de-Camp, for an invention for—"Improvements applicable to ordnance." *Provisional protection only.*

KNOWELDEN. EDWARDS. 7th July 1859.

1613. JOHN KNOWELDEN, of Southwark, in the County of Surrey, Engineer, and DOWNES EDWARDS, of Upper Belgrave Place, in the County of Middlesex, Gentleman, for an invention for—"Improvements in hydraulic engines and pumps and the employment of apparatus for applying motive-power." *Letters Patent sealed.*

RAPIER. 7th July 1859.

1614. RICHARD CHRISTOPHER RAPIER, of Newcastle-upon-Tyne, in the County of Northumberland, Engineer, for an invention for—"Improvements in working rolls for rolling plates of unequal thicknesses." *Provisional protection only.*

KNOWLES. 7th July 1859.

1615. Sir FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"Improvements in making iron castings." *Letters Patent sealed.*

SMITH. 7th July 1859.

1616. JOHN SMITH, of Norton Street, Cherry Square, New Radford, in the County of Nottingham, Lace Manufacturer, for an invention for—"Improvements in propelling ships and other vessels." *Letters Patent sealed.*

ROBINSON. 7th July 1859.

1617. WILLIAM ROBINSON, of Wembdon, Bridgewater, in the County of Somerset, Brewer, for an invention for—"Improvements in cask washing machines." *Letters Patent sealed.*

JOHNSON. 7th July 1859.

1618. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in knitting frames."—*A communication from abroad by Jules Nicholas Poivret, of Troyes, France, Mechanician.* *Letters Patent sealed.*

ELLIS. 8th July 1859.

1619. GEORGE ELLIS, of No. 4, Collier Street, Pentonville, in the County of Middlesex, Merchant, for an invention for—"The improvement of muffs, to be called "the patent reticule travelling muff." *Letters Patent sealed.*

DAWES. 8th July 1859.

1620. WILLIAM HENRY DAWES, of Bromford Iron Works, West Bromwich, in the County of Stafford, Iron Master, for an invention for—"An improvement or improvements in the manufacture of iron." *Letters Patent sealed.*

WAITE. 8th July 1859.

1621. WILLIAM WAITE, of York House, No. 48, Baker Street, Portman Square, in the County of Middlesex, for an invention for—"Manufacturing bonnets, hats, and other articles partly or entirely from the leaves of the palm tree or other flat or thin material." *Complete specification; Protection for SIX months only.*

LE MAT. 8th July 1859.

1622. FRANCOIS ALEXANDRE LE MAT, of New Orleans, in the State of Louisiana, in the United States of America, Colonel, Aide-de-Camp, for an invention for—"Improvements in the construction of revolving or repeating fire-arms." *Letters Patent sealed.*

GIBBS. 8th July 1859.

1623. JOSEPH GIBBS, of Brentford, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of brushes, brooms, coverings for floors, mats, scrapers, and other scraping and rubbing surfaces. *Letters Patent sealed.*

CARTWRIGHT. 8th July 1859.

1624. GEORGE CARTWRIGHT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in corks for bottles and jars." *Provisional protection only.*

BOGGIS. 8th July 1859.

1625. GEORGE ALEXANDER BOGGIS, of Croxted Place, Dulwich, in the County of Surry, for an invention for—"Improvements in rendering boots and shoes waterproof." *Provisional protection only.*

LIVERMORE. 8th July 1859.

1626. ELIJAH LIVERMORE, of the City of New York, in the United States of America, for an invention for—"Improvements in the manufacture of burning fluids for illuminating and heating purposes."—*A communication from Levi Lewis Hill, resident at Greenport, in the County of Columbia and State of New York, in the United States of America.* *Letters Patent sealed.*

1627. DAVID MATHEWS, of Eshald Well Brewery, Oulton, near Leeds, in the County of York, Brewer, for an invention for—"Improvements in apparatus for refrigerating and heating liquids." *Letters Patent sealed.*

1628. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in moulding or shaping metals by pressure, and in the machinery or apparatus employed therein."—*A communication from abroad by Levi Dodge, of the United States of America.* *Letters Patent sealed.*

1629. WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the City of London, for an invention for—"Improvements in ships' capstans and riding bits." *Letters Patent sealed.*

1630. HENRY BRINSMEAD, and JEREMIAH LAWRENCE, of Ipswich, for an invention for—"Improvements in rotatory screens." *Letters Patent sealed.*

1631. JOHN TAYLOR, of Roupell Park, Streatham Hill, in the County of Surrey, for an invention for—"Improvements in the construction of walls to prevent damp from rising, and also in tiles to be used for this purpose in building walls." *Letters Patent sealed.*

1632. THOMAS DUPPA DUPPA, of Longville, Wistanton, Shropshire, for an invention for—"Improvements in carpenters' benches." *Letters Patent sealed.*

1633. WILLIAM WOOFE, of Gloucester, Agriculturalist, for an invention for—"Improvements in ploughs." *Provisional protection only.*

1634. WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural implement Maker, for an invention for—"Improvements in machines for making and collecting hay and for cutting thristles and weeds, which improvements in whole or in part are applicable to other agricultural implements where teeth or tines are used." *Letters Patent sealed.*

1635. WILLIAM NEWZAM NICHOLSON, of Newark-on-Trent, Agricultural implement Maker, for an invention for—"Improvements in clod crushers and land and garden rollers." *Letters Patent sealed.*

1636. MICHAEL HENRY, of 84 Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of overshoes and other articles worn on the feet, and in the apparatus employed therein."—*A communication from abroad by Louis Alfred d'Hennin, Mathilde Catherine Georgette Ponceott, and Caliste Bloisbluche, all of Paris, in the French Empire.* *Letters Patent sealed.*

1637. BERNHARD SAMUELSON, and JOHN SHAW, both of the Britannia Works, Banbury, in the County of Oxford, for an invention for—"Improvements in reaping and mowing machines." *Provisional protection only.*

1638. FREDERICK AYCKBOURN, of 27, Henry Street, Vauxhall Gardens, Surrey, Gentleman, for an invention for—"Constructing certain articles of dress so as to prevent drowning." *Provisional protection only.*

1639. CHARLES ILIFFE, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of buttons." *Letters Patent sealed.*

1640. WILLIAM MACKEAN, of Paisley, in the County of Renfrew, Scotland, Starch Manufacturer, for an invention for—"Improvements in the manufacture or treatment of farinaceous matters for the obtainment of starch and food." *Letters Patent sealed.*

1641. ELIJAH LIVERMORE, of the City of New York, in the United States of America, for an invention for—"Improvements in generating gas for the purpose of lighting and heating." *Provisional protection only.*

1642. JOHN SMITH, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in apparatus for heating and cooling water." *Letters Patent sealed.*

HUTCHINS. 11th July 1859.

643. EDWARD FRANCIS HUTCHINS, Architect, of Albert Cottages, Perry Street, in the Parish of Northfleet, Kent, for an invention for—"Constructing the jaw or jaws of vices and holding tools in general with a ball and socket joint." *Provisional protection only.*

CLEGG. 11th July 1859.

1644. ROBERT CLEGG, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machines for cutting wood and metal and in the means of fixing saws thereto."—*A communication from abroad by Felix Crampe, of No. 107, Rue de Vangirard, Paris, in the Empire of France. Provisional protection only.*

DAVIES. 11th July 1859.

1645. HENRY DAVIES, of No. 13, Leicester Buildings, in King Street, Liverpool, in the County of Lancaster, for an invention for—"Improvements in the manufacture of soap." *Letters Patent sealed.*

PICKARD. 11th July 1859.

1646. JOHN CHARLES PICKARD, of Burnley, in the County of Lancaster, Patent Temple and Weft Fork Maker, for an invention for—"Improvements in weft forks for looms." *Provisional protection only.*

NEWTON. 11th July 1859.

1647. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in magneto-electric machines."—*A communication from abroad by George W. Beardslee, of Flushing, State of New York, in the United States of America."* *Letters Patent sealed.*

DIBLE. GRAVELEY. 11th July 1859.

1648. JAMES DIBLE, of Northam, in the County of Hants, Shipwright, and WILLIAM HENRY GRAVELEY, of Upper East Smithfield, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatuses for ventilating and lighting ships." *Letters Patent sealed.*

BURDEN. 11th July 1859.

1649. FRANCIS BURDEN, of John Street, Adelphi, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Provisional protection only.*

HARTMANN. 11th July 1859.

1650. JULES ALBERT HARTMANN, of Mulhouse, in the Empire of France, Chemist, for an invention for—"Improvements in the manufacture of colours for printing cotton and other vegetable fibres and silk." *Provisional protection only.*

LUIS. 12th July 1859.

1651. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex (Patent Agent), for an invention for—"Imitation leather." — *A communication from abroad by Auguste Legeay, No. 10, Rue Mogador, Paris, in the Empire of France.* *Provisional protection only.*

LUIS. 12th July 1859.

1652. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex (Patent Agent), for an invention for—"Improvements in railway car seats and arm chairs."—*A communication from abroad by Bernard Joachim La Mothe, No. 10, Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

PROAL. 12th July 1859.

1653. CAMILLE JOSEPH PROAL, of No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"The application of photographic impressions or pictures upon fabrics or tissues, for rendering such fabrics or tissues applicable to various useful purposes."—*A communication from abroad by Jules Bernard, of Paris, France.* *Letters Patent sealed.*

WRIGHT. 12th July 1859.

1654. THOMAS WRIGHT, of 9, George Yard, Lombard Street, in the City of London, Engineer, for an invention for—"Improvements in the permanent way of railways, and in the means of preventing railway accidents thereon." *Letters Patent sealed.*

WHITE. 12th July 1859.

1655. GEORGE WHITE, of Mansfield, in the County of Nottingham, School Master, for an invention for—"Improvements in apparatus for counteracting the effects of collisions in railway trains." *Provisional protection only.*

MUNN. 13th July 1859.

1656. WILLIAM AUGUSTUS MUNN, of Throwley House, near Feversham, in the County of Kent (late a Major in the East Kent Milita), a Deputy Lieutenant and Justice of Peace for the said County of Kent, for an invention for—"Improvements in reaping machines." *Letters Patent sealed.*

WALKER. HOYLE. 13th July 1859.

1657. CHARLES SAMUEL WALKER, and ROBERT HOYLE, both of Bury, in the County of Lancaster, Engineers, for an invention for—"Improvements in machinery or apparatus for promoting the consumption of smoke in steam boiler and other furnaces, and for preventing the explosion of steam boilers." *Letters Patent sealed.*

COOPER. 13th July 1859.

1658. ALLAN COOPER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of the grips of swords and sword bayonets." *Letters Patent sealed.*

THOMSON. 13th July 1859.

1659. JAMES STRANG THOMSON, of Kilmarnock, in the County of Ayr, North Britain, Manufacturer, for an invention for—"Improvements in steam engines."—*A communication from abroad by Henry Blandy and Frederick T. L. Blandy, of Zanesville, United States.* *Provisional protection only.*

COTTON. 13th July 1859.

1660. WILLIAM COTTON, of Loughborough, in the County of Leicester, Manufacturer, for an invention for—"Improvements in means or apparatus for connecting together or uniting looped fabrics." *Letters Patent sealed.*

COMBE. 13th July 1859.

1661. JAMES COMBE, of Belfast, for an invention for—"Improvements in machinery for hackling flax and other fibrous substances." *Letters Patent sealed.*

TAYLOR. 13th July 1859.

1662. JOHN TAYLOR, of Roupell Park, Streatham Hill, in the County of Surrey, for an invention for—"Improvements in stoves and fire places, and in the arrangement of flues connected therewith." *Letters Patent sealed.*

WALKER. 14th July 1859.

1663. WILLIAM WALKER, of Liverpool, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in the manufacture of metallic packages, and in machinery for manufacturing the same."—*A communication from James Wilson, Charles Green, and William Wilson the younger, all of whom reside at Wilmington, in Newcastle County, in the State of Delaware, one of the United States of America, and are Citizens of the United States of America.*
Provisional protection only.

MUSHET. 14th July 1859.

1664. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"Improvements in the manufacture of shot and shell and other projectiles." *Letters Patent sealed.*

MUSHET. 14th July 1859.

1665. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"A new or improved manufacture of certain metallic compounds or alloys." *Letters Patent sealed.*

ATKINSON. 14th July 1859.

1666. JOSEPH ATKINSON, of Lancaster, in the County of Lancaster, Gun Manufacturer, for an invention for—"Improvements in fire-arms."
Letters Patent sealed.

JOHNSON. 14th July 1859.

1667. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of artificial fuel."—*A communication from abroad by Monsieur de la Fenestre, of 24, Rue Meslay, Paris, in the Empire of France.* *Provisional protection only.*

MORGAN. 14th July 1859.

1668. JOSEPH MORGAN, of Manchester, for an invention for—"Improvements in apparatus for making candles." *Letters Patent sealed.*

BAILEY. 14th July 1859.

1669. JOHN BAILEY, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for stretching woven fabrics." *Letters Patent sealed and specification filed by order.*

LONGSTAFF. PULLAN. 14th July 1859.

1670. RICHARD LONGSTAFF, of Mornington Road, New Cross, in the County of Kent, Pattern Maker, and ABRAHAM PULLAN, of Fortie Cottage, New Cross, in the same County, Engineer, for an invention for—"Improvements in traction or locomotive engines. *Letters Patent sealed.*

KINGSFORD. 15th July 1859.

1671. CHRISTOPHER KINGSFORD, of Seaton, near Wingham, in the County of Kent, Civil Engineer, for an invention for—"Improvements in the preparation of peat and charcoal for fuel, in the manufacture of coke therefrom, and in the machinery and apparatus employed for effecting the same." *Letters Patent sealed.*

CLARK. WILLIAMS. 15th July 1859.

1672. WILLIAM CLARK, and WILLIAM WILLIAMS, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in finishing woven fabrics." *Letters Patent sealed.*

BROWN. 15th July 1859.

1673. FREDERICK BROWN, of City Road, in the County of Middlesex, for an invention for—"The preparation and manufacture of a new fibrous pulp for making paper and for other useful purposes." *Provisional protection only.*

MUSHET. 15th July 1859.

1674. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"New or improved methods of manufacturing a certain metallic compound or alloy." *Letters Patent sealed.*

DE CHATEAUNEUF. 15th July 1859.

1675. HECTOR GRAND DE CHATEAUNEUF, of Paris, France, Civil Engineer, for an invention for—"An improved coverlet called Zephyr-eider-down coverlet." *Provisional protection only.*

FARRAR. 15th July 1859.

1676. JOHN PRENTICE FARRAR, of New York, in the United States of America, Gentleman, for an invention for—"Improvements in the treatment of iron." *Letters Patent sealed.*

M'ANDREW. BOYD. 15th July 1859.

1677. WILLIAM M'ANDREW, of 57, King William Street, in the City of London, and CHARLES WILSON BOYD, of Sochia, Asia Minor, for invention for—"Improvements in treating poppies to obtain a product resembling opium therefrom." *Provisional protection only.*

CARTER. 15th July 1859.

1678. WILLIAM ORME CARTER, of 12, South John Street, Liverpool, in the County of Lancaster, for an invention for—"Improvements in machinery for sawing slate." *Letters Patent sealed.*

PRINCE. 15th July 1859.

1679. FREDERIC PRINCE, of 138, New Bond Street, in the County of Middlesex, Gun Maker, for an invention for—"An improvement in breech-loading firearms." *Provisional protection only.*

MUSGRAVE. 16th July 1859.

1680. JOHN MUSGRAVE, Junior, of the firm of John Musgrave and Sons, Globe Iron Works, Bolton-le-Moors, in the County of Lancaster, Engineers, for an invention for—"Improvements in the construction of steam boilers." *Provisional protection only.*

BERNARD. 16th July 1859.

1681. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction and arrangement of hydraulic and other pumps for forcing liquids and for obtaining pressure." *Letters Patent sealed.*

BERNARD. 16th July 1859.

1682. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the manufacture of boots and shoes, and in the machinery and apparatus to be employed therein." *Letters Patent sealed.*

POTTINGER. 16th July 1859.

1683. CHRISTOPHER POTTINGER, of Anstruther, in the County of Fife, North Britain, Boat Builder, for an invention for—"Improvements in machinery or apparatus for dredging or excavating and for driving piles." *Letters Patent sealed.*

CUNNEW. 16th July 1859.

1684. HENRY CUNNEW, of the Triangle, Hackney, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in elastic bands." *Letters Patent sealed.*

TROUTTET. 16th July 1859.

1685. PAUL AUGUSTIN AMÉDÉE TROUTTET, of Dijon, in the Empire of France, Gentleman, for an invention for—"A new moveable stopper for gaseous liquids." *Provisional protection only.*

GRIMSHAW. 16th July 1859.

1686. O'DONNELL GRIMSHAW, of Belfast, in the Kingdom of Ireland, Postmaster, for an invention for—"Improvements in safety letter boxes and bags." *Letters Patent sealed.*

SMITH. 16th July 1859.

1687. WILLIAM MORRIS SMITH, of Northampton, Gentleman, for an invention for—"The construction of fare-boxes for the prevention of fraud on the part of drivers, conductors, &c."—*A communication from abroad by J. B. Slawson, of New Orleans, in the State of Louisiana, in the United States of America.*" *Letters Patent sealed.*

CHAPIN. 16th July 1859.

1688. MYRON HOLLEY CHAPIN, of Boston, in the State of Massachusetts, in the United States of America, but now residing in Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in the manufacture of galloons, tapes or ribbons for supporting steel or other hoops used for distending ladies' dresses." *Provisional protection only.*

CARLIELL. 16th July 1859.

1689. THOMAS CARLIELL, of Union Street, Portsea, Hampshire, for an invention for—"Improvements in vent pegs." *Letters Patent sealed.*

CRANSTON. 16th July 1859.

1690. WILLIAM MCINTYRE CRANSTON, of 11, New Broad Street, London, for an invention for—"Improved delivery apparatus for harvest machines.—*A communication from abroad by Walter Abbott Wood, of Hoosick Falls, County of Rensselaer, State of New York, America.*

Complete specification; Protection for SIX months only.

BERNARD. 18th July 1859.

1691. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of boots and shoes and the means employed therein." *Letters Patent sealed.*

CRAMER. 18th July 1859.

1692. HENRY CHRISTOPHE MARTIN CRAMER, of Paris, France, Joiner, for an invention for—"Improvements in bedsteads." *Letters Patent sealed.*

SHAW. 18th July 1859.

1693. JAMES SHAW, of Teignmouth, in the County of Devon, for an invention for—"Improvements in the manufacture of artificial fuel."

Provisional protection only.

PHILLIPS. 18th July 1859.

1694. ANDREW PHILLIPS, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in weaving carpets and in the machinery or apparatus to be used therein, parts of which machinery or apparatus are applicable to the weaving of other fabrics." *Letters patent sealed.*

HARFIELD. 18th July 1859.

1695. WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the City of London, for an invention for—"Improvements in apparatus employed in getting ships' anchors and in shackling chains." *Letters Patent sealed.*

NEWTON. 18th July 1859.

1696. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the method of constructing and operating batteries for generating or exciting by chemical action electricity for telegraphic purposes."—*A communication from abroad by Thomas C. Avery, of New York, in the United States of America.*

Letters Patent sealed.

NEWTON. 18th July 1859.

1697. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of india-rubber and other like fabrics."—*A communication from abroad by Jonathan Thompson Trotter, of New York, in the United States of America.* *Letters Patent sealed.*

LUIS. 9th July 1859.

1698. JOZÈ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex (Patent Agent), for an invention for—"A new system of eccentric socket adapted to axle trees."—*A communication from abroad by Jean Baptiste Gangand, No.* 10, *Rue Mogador, Paris, in the Empire of France.* *Letters Patent sealed.*

BAKEWELL. 19th July 1859.

1699. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in extracting oils from coal and other minerals."—*A communication from abroad by David Alter and Samuel A. Hill, of Pittsburgh, in the United States of North America.*

Letters Patent sealed.

SHANKS. 19th July 1859.

1700. JAMES SHANKS, of Arbroath, in the County of Forfar, North Britain, Machinist, for an invention for—"Improvements in mowing machines."

Letters Patent sealed.

PARENT. 19th July 1859.

1701. HENRI PARENT, of Roubaix, in the Empire of France, Manufacturer, for an invention for—"Improvements in or applicable to looms for weaving."

Letters Patent sealed.

RIDDEL. 19th July 1859.

1702. JOHN CHARLEY RIDDEL, of Belfast, in the County of Antrim, Ireland, for an invention for—"Improvements in stalls, loose-boxes, and enclosures for horses, cows, pigs, or other animals." *Letters Patent sealed.*

ERSKINE. 20th July 1859.

1703. JAMES ERSKINE, of Newton Stewart, North Britain, Gun Maker, for an invention for—"Improvements in breech loading fire-arms." *Letters Patent sealed.*

CURTIS. HAIGH. 20th July 1859.

1704. THOMAS CURTIS, and JONATHAN HAIGH, both of Leeds, in the County of York, Cloth Finishers, for an invention for—"Improvements in the finishing of cloths." *Letters Patent sealed.*

GEDGE. 20th July 1859.

1705. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son (Patent Agents), of No. 4, Wellington Street South, Strand, in the County of Middlesex, for an invention for—"Improved apparatus for the prevention of accidents in mines, to be called a mining parachute."—*A communication from abroad by Mr. Fontaine, of the Mines of Anzin, Department du Nord, in the Empire of France.*

Provisional protection only.

GRADWELL. GRADWELL. 20th July 1859.

1706. WILLIAM JAMES GRADWELL, of Manchester, in the County of Lancaster, Mechanic, and DAVID GRADWELL, of the same place, Maker-up and Packer, for an invention for—"Certain improvements in bearings or journals employed in machinery, which improvements are also applicable to the bearings of railway and other wheels and axles." *Provisional protection only.*

EARL OF CAITHNESS. 20th July 1859.

1707. The Right Hnorable JAMES EARL OF CAITHNESS, of Hill Street, in the County of Middlesex, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*

ORIOLI. 20th July 1859.

1708. ZEPHIRIN GASPARD ALEXANDRE NATHAN PETRONE ORIOLI, of 29, Boulevart St. Martin, Paris, in the Empire of France, Civil Engineer, for an invention for—"New applications of hypochloride of alumina to bleaching & dyeing and to the disinfection and preservation of organic matters." *Letters Patent sealed.*

NEWTON. 20th July 1859.

1709. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in self-acting lithographic printing machines."—*A communication from abroad by William Hermann Stübbe, of Boston, in the United States of America.*

Provisional protection only.

PRESTON. 21st July 1859.

1710. HENRY BERTHON PRESTON, of the firm of Messrs. Fawcett, Preston & Co., of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in apparatus for superheating steam." *Provisional protection only.*

TODD. 21st July 1859.

1711. JAMES TODD the younger, of Castelmains, in the County of Haddington, North Britain, Farmer, for an invention for—"Improvements in machinery or apparatus for dressing or cleansing and separating grain and seeds."

Letters Patent sealed.

WELCH. 21st July 1859.

1712. GEORGE WELCH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of frames for mirrors, pictures, and other articles." *Letters Patent sealed.*

ROBSON. 21st July 1859.

1713. ISAAC ROBSON, of Dalton, near Huddersfield, in the County of York, Dyer, for an invention for—"Improvements in means or apparatus for drying and cuttling cotton warps after being dyed or sized, or after any other process of wetting and when quick drying is required. *Provisional protection only.*

TAPP. TAPP. 21st July 1859.

1714. CHARLES TAPP, and JAMES BRYANT TAPP, of Chesterfield, Derbyshire, Engineers, for an invention for—"Improvements applicable to steam boilers and furnaces for consuming smoke and economizing fuel in the generation of steam, and in the apparatus connected therewith." *Letters Patent sealed.*

HENRY. 21st July 1859.

1715. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in apparatus or machinery for the manufacture of corks and bungs."—*A communication from abroad by Paul Alexis Adolphe Dalverny, of 33, Boulevard Saint Martin, Paris, France, Merchant.*

Provisional protection only.

SCOTT. SCOTT. 21st July 1859.

1716. EDWARD JOHN SCOTT, and SAMUEL FREDERICK SCOTT, of Glasgow, in the County of Lanark, North Britain, Manufacturers of Boots and Shoes, for an invention for—"Improvements in the manufacture of boots and shoes."

Provisional protection only.

HEALEY. 21st July 1859.

1717. HENRY HEALEY, of Ashby Decoy Cottage, near Brigg, in the County of Lincoln, for an invention for—"Improvements in machinery for destroying flies and other insects on growing crops." *Provisional protection only.*

HARTLEY. 22nd July 1859.

1718. JOSEPH HARTLEY, of Romiley, near Stockport, in the County of Chester, Manager, for an invention for—"Improvements in machinery for regulating the velocity of steam and other engines." *Letters Patent sealed.*

ISHAM. ALBERTSON. 22nd July 1859.

1719. JOSEPH G. ISHAM, and STEPHEN D. ALBERTSON, of the City and State of New York, United States of America, for an invention for—"An improved machine for cutting and shaping bottle and other corks."—*A communication from Albert Albertson, a person residing abroad.* *Letters Patent sealed.*

BELL. BLACK. 22nd July 1859.

1720. SAMUEL ALEXANDER BELL, and JOHN BLACK, of Bow Lane, Cheapside, in the City of London, Vesta Light and Fusee Manufacturers, for an invention for—"An improved manufacture of fusee." *Letters Patent sealed.*

NEWTON. 22nd July 1859.

1721. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in sewing machines."—*A communication from abroad by George Kugler, Boniface Plaz, and Jacob Rexroth, all of Paris, in the Empire of France.*
Provisional protection only.

WHITEHALL. WHEATCROFT. 23rd July 1859.

1722. JOHN BATKIN WHITEHALL, of the Town and County of the Town of Nottingham, Engineer, and SAMUEL WHEATCROFT, of the New North Road, County of Middlesex, Engineer, for an invention for—"Improvements in the construction of certain parts of the apparatus or machinery made use of for manufacturing bonnet and cap fronts, rouches, and such like articles of millinery."
Letters Patent sealed.

HARROP. 23rd July 1859.

1723. HORATIO NELSON HARROP, Jr., of Manchester, in the County of Lancaster, Cigar Dealer, for an invention for—"Certain improvements in a cigar lighter and fusee box." *Provisional protection only.*

BROADLEY. 23rd July 1859.

1724. JAMES BROADLEY, of Saltaire, in the County of York, Overlooker to Mess. Titus Salt, Sons & Co., of the same place, Spinners and Manufacturers, for an invention for—"Improvements in means or apparatus used in weaving."
Letters Patent sealed.

TENWICK. 23rd July 1859.

1725. JOHN TENWICK, of Clarendon Street (Albion Foundry), Portsmouth, Hampshire, for an invention for—"Improved steering apparatus for ships."
Provisional protection only.

HARFIELD. 23rd July 1859.

1726. WILLIAM HORATIO HARFIELD, of Fenchurch Street, in the City of London, for an invention for—"Improvements in capstans, riding bits and stoppers for working with chains." *Letters Patent sealed.*

AMBLER. 25th July 1859.

1727. HENRY AMBLER, of Halifax, in the County of York, Engineer, for an invention for—"Improvements in explosive projectiles." *Provisional protection only.*

ROWLAND. HALL. 25th July 1859.

1728. JOHN ROWLAND, Junior, of Oldham, in the County of Lancaster, Manufacturer, and GEORGE HALL, of the same place, Engineer, for an invention for—"Improvements in machinery or apparatus for sizing yarns or threads, which said improvements are also applicable to dressing machines, or other similar apparatus."
Letters Patent sealed; no specification filed.

DAVIES. 25th July 1859.

1729. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in dyeing yarns, threads, or woven fabrics of wool, silk, cotton, linen, or other fibrous or filamentous material."—*A communication from abroad by François Xavier Hurstel, of Paris, Wool-Comber.*
Letters Patent sealed.

HUNT. 25th July 1859.

1730. EDMUND HUNT, of Glasgow, in the County of Lanark, North Britain, Consulting Engineer and Patent Agent, for an invention for—"Improvements in apparatus for indicating and regulating speed." *Provisional protection only.*

NEWTON. 25th July 1859.

1731. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in extracting oil from coal, and other substances yielding pyrogenous oils."—*A communication from abroad by Franklin W. Willard, of New York, in the United States of America.* *Letters Patent sealed.*

VASSEROT. 25th July 1859.

1732. CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, for an invention for—"Preventing and removing incrustations in steam boilers."—*A communication from Jean Claude Chavanne, residing at Lyons, in the Empire of France.* *Letters Patent sealed.*

KING. 26th July 1859.	1733. JAMES KING, of Glasgow, in the County of Lanark, North Britain, Chemist, for an invention for—"Improvements in the treatment of materials used in or resulting from the distillation of spririts." *Letters Patent sealed.*
BUCKLAND. 26th July 1859.	1734. WILLIAM HENRY BUCKLAND, of Maesteg Iron Works, in the County of Glamorgan, Iron Master, for an invention for—"An improved preparation of peat." *Letters Patent sealed.*
JOHNSON. 26th July 1859.	1735. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in slide valves for steam engines."—*A communication from abroad by Richard C. Bristol, of Chicago, United States of America.* *Letters Patent sealed.*
MICKLES. 26th July 1859.	1736. PHILO D. MICKLES, of Syracuse, State of New York, United States of America, for an invention for—"An improved spring for railroad and other carriages, and for other uses and applications where springs are required."—*A communication from Danforth Johnson, a person resident at Chicago, State of Illinois, U.S.A.* *Letters Patent sealed.*
HINKS. WELLS. 26th July 1859.	1737. JOHN HINKS, and GEORGE WELLS, of Birmingham, in the County of Warwick, Manufacturers and Copartners, for an invention for—"An improvement in or a substitute for the hook of the ordinary hook and eye dress fastening." *Letters Patent sealed.*
GILLOTT. MORRISON. 26th July 1859.	1738. JOSEPH GILLOTT, of Birmingham, in the County of Warwick, Manufacturer, and JOHN MORRISON, of Birmingham aforesaid, Machinist, for an invention for—"New or improved machinery for the manufacture of the handles of penholders, which machinery or a part or parts thereof may also be employed for manufacturing other cylindrical articles." *Letters Patent sealed.*
HALE. 26th July 1859.	1739. DEIDAMIA B. HALE, of the City and State of New York, United States of America, for an invention for—"A new and useful garment for ladies' wear, being a combined dress waist or body and a skirt supporter and bustle."—*That he is the first and true inventor thereof, except as to cap or slide for connecting together the hoops or circles, which is a communicaion form Albert W. Hale, of New York aforesaid.* *Letters Patent sealed.*
MENNONS. 27th July 1859.	1740. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved comb-cleaner."—*A communication from Hippolyte Gaudibert, a person residing in Paris.* *Provisional protection only.*
WINSTANLEY. 27th July 1859.	1741. EDWARD WINSTANLEY, Cotton Spinner, Ashton-under-Lyne, for an invention for—"Improvements in indicators for registering the quantity produced by spinning machinery." *Provisional protection only.*
DAVIES. 27th July 1859.	1742. JOHN DAVIES, of Tetbury, in the County of Gloucester, Machinist, for an invention for—"A new or improved self adjusting ventilating apparatus." *Letters Patent sealed.*
DICKENS. 27th July 1859.	1743. THOMAS DICKENS, of Middleton, in the County of Lancaster, Gentleman, for an invention for—"Improvements in dyeing and discharing warps or other yarns or threads and woven fabrics of silk, wool, cotton, and other fibrous materials." *Provisional protection only.*
SCOFFERN. 27th July 1859.	1744. JOHN SCOFFERN, of 4, Barnard's Inn, in the County of Middlesex, Bachelor of Medicine, for an invention for—"Improvements in waterproofing, cementing and stiffening fabrics and fibrous materials, and also in dyeing fabrics and fibrous materials." *Letters Patent sealed.*
BLUM. 27th July 1859.	1745. CHARLES LOUIS BLUM, of 29, Boulevart St. Martin, Paris, Merchant, for an invention for—"A mechanical apparatus for smoking and colouring pipes." *Provisional protection only.*
HUDSON. CATLOW. 28th July 1859.	1746. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, and CHRISTOPHER CATLOW, of the same place, Overlooker, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

HUNT. POCHIN. 28th July 1859.

1747. EDWARD HUNT, and HENRY DAVIS POCHIN, both of Salford, in the County of Lancaster, Chemists, for an invention for—"Improved resin and resinous substances." *Letters Patent sealed.*

SIDEBOTTOM. 28th July 1859.

1748. ALFRED SIDEBOTTOM, of Crown Street, Camberwell, in the County of Surrey, Consulting Chemist, for an invention for—"Improvements in the mode or process of separating animal fibre from mixed fabrics of animal fibre and cotton or other vegetable fibre. *Letters Patent sealed.*

SMITH. 28th July 1859.

1749. CHARLES WESLEY SMITH, of the Town of Evans, County of Erie, and State of New York, Electrician, for an invention for—"Improvements in electric telegraphs and in the apparatus connected therewith." *Provisional protection only.*

KENT. 28th July 1859.

1750. WILLIAM KENT, of Paternoster Row, in the City of London, for an invention for—"A self acting fan." *Letters Patent sealed.*

BROWN. 28th July 1859.

1751. JOHN WEIR DRAPER BROWN, of Lewisham, in the County of Kent, Surgeon, for an invention for—"Improvements in signal and lighthouse lamps and lanterns." *Provisional protection only.*

ASPINALL. 28th July 1859.

1752. JOHN ASPINALL, of Charing Cross, in the County of Middlesex, Engineer, for an invention for—"Improvements in evaporating and in apparatus for the same, especially applicable to the evaporation of sugar." *Letters Patent sealed.*

NEWTON. 28th July 1859.

1753. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in grinding mills."—*A communication from abroad by Joseph Cornelius Lyons and James Schenck Wyckoff, of Sennet, County of Cayuga, and State of New York, in the United States of America.* *Provisional protection only.*

CLARK. 28th July 1859.

1754. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improved apparatus for turning over music leaves or sheets."—*A communication from abroad by Hermine Madeleine Basset, of Boulevart St. Martin, Paris, in the Empire of France.* *Letters Patent sealed.*

JACKSON. 28th July 1859.

1755. JOHN JACKSON, of Church Street, Spitalfields, in the County of Middlesex, Pen Manufacturer, for an invention for—"Improvement in metal pens." *Letters Patent sealed.*

ROBERTSON. 28th July 1859.

1756. PATRICK ROBERTSON, of Sun Court, Cornhill, in the City of London, for an invention for—"Improvements in the manufacture of beer, ale, porter, and spirits." *Letters Patent sealed.*

CULPIN. 29th July 1859.

1757. THOMAS CULPIN, of No. 25, Royal Hill, Greenwich, in the County of Kent, Engineer, for an invention for—"Improvements in water-closets, water-cisterns, urinals, baths, lavatories and other sanitary apparatus, and in the mode of supplying water thereto." *Provisional protection only.*

LINDLEY. 29th July 1859.

1758. ISAAC MARTIN LINDLEY, of Staley Bridge, in the County of Chester, Currier and Leather Merchant, for an invention for—"Improvements in cop-tubes." *Letters Patent sealed.*

WRIGHT. 29th July 1859.

1759. JAMES WRIGHT, of 42, Bridge Street, Blackfriars, City of London, Civil Engineer, for an invention for—"An improved method of raising or drawing up the skirts of gowns or dresses."—*A communication from abroad by M. Bresson, of Paris, in the French Empire, Civil Engineer.* *Letters Patent sealed.*

WILSON. 29th July 1859.

1760. SAMUEL WILSON, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the construction of presses for compressing cotton and other articles." *Provisional protection only.*

VIETTE. 29th July 1859.

1761. POLYNICE AUGUSTE VIETTE, of No. 25, Faubourg de Shaerbeck, near Brussels, a Major in the Service of his Majesty the King of the Belgians, for an invention for—"Improvements in engraving on metal or on other substances decomposable by acids or corrosive salts." *Letters Patent sealed.*

CHANDLER. 29th July 1859.

1762. JAMES CHANDLER, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in apparatuses for indicating the water level in boilers and other vessels, parts of which are also applicable for inspecting the interior thereof." *Provisional protection only.*

TERRELL. 29th July 1859.

1763. THOMAS JOSEPH TERRELL, of Poplar, in the County of Middlesex, Shipwright, for an invention for—"An improvement in ships' riding bits and "timberheads." *Provisional protection only.*

NEWTON. 29th July 1859.

1764. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in that class of fire arms known as revolvers, and in bullets for the same."—*A communication from abroad by John Walch, of New York, in the United States of America.* *Letters Patent sealed.*

WOOD. 30th July 1859.

1765. JOSEPH WOOD, of York City, Surgical Instrument Maker, for an invention for—"An improved truss for hernia." *Letters Patent sealed.*

HAECK. 30th July 1859.

1766. FRANÇOIS HAECK, of Schaerbeck, near Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in refrigerating apparatus especially adapted to pumps or other apparatus for the supply of beer and other liquids." *Letters Patent sealed.*

GURNEY. 30th July 1859.

1767. GOLDSWORTHY GURNEY, of Woodleigh, Cornwall, Esquire, for an invention for—"Improvements in electric telegraphic conductors." *Provisional protection only.*

SEITHEN. 30th July 1859.

1768. ANTON BRUNO SEITHEN, of 6, Alpha Place, Caledonian Road, London, in the County of Middlesex, for an invention for—"Improvements in cases or boxes, and in casings, hampers, baskets, and wrappers for holding bottles, jars, and other articles." *Letters Patent sealed.*

FIRTH. 30th July 1859.

1769. THOMAS FIRTH, of Sheffield, in the County of York, Iron and Steel Manufacturer, for an invention for—"An improved breech loading cannon." *Provisional protection only.*

NEWCOME. 30th July 1859.

1770. HENRY JUSTINIAN NEWCOME, of Shenley, near Barnet, in the County of Herts, for an invention for—"An apparatus for heating or warming buildings." *Letters Patent sealed.*

WILSON. 30th July 1859.

1771. ARTHUR BUSHBY WILSON, of Cockermouth, in the County of Cumberland, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats." *Provisional protection only.*

JAMIESON. 30th July 1859.

1772. WILLIAM JAMIESON, of Stoney Middleton, in the County of Derby, for an invention for—"An improved churn."—*A communication from Oliver Gunnell, resident at Moline, Illinois, in the United States of America.* *Provisional protection only.*

PARSONS. 30th July 1859.

1773. PERCEVAL MOSES PARSONS, of Arthur Street West, London Bridge, for an invention for—"Improvements in switches and crossings of railways." *Letters Patent sealed.*

CAMPBELL. WORSTENHOLM. 1st August 1859.

1774. WILLIAM CAMPBELL, Machinist, and GEORGE WORSTENHOLM, Machinist, both of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in machinery for the manufacturing of wrought nails, as also in the treatment of the iron from which such or other kinds of nails may be made."—*Partly a communication from abroad by George William Allen, of Rhode Island, United States of America.* *Letters Patent sealed.*

MOLLADY. 1st August 1859.

1775. JOHN MOLLADY, of Manchester, in the County of Lancaster, Hat Manufacturer, for an invention for—"An improved form or construction of hat, cap, or covering for the head." *Letters Patent sealed.*

TREEBY. 1st August 1859.

1776. THOMAS WRIGHT GARDINER TREEBY, of No. 1, Westbourne Terrace Villas, Upper Westbourne Terrace, Paddington, Middlesex, for an invention for—"Improvements on targets." *Letters Patent sealed.*

MESSENGER. 1st August 1859.

1777. THOMAS GOODE MESSENGER, of High Street, Loughborough, in the County of Leicester, Horticultural Builder and Plumber, for an invention for—"Improvements in the construction of buildings or erections to be used for horticultural or other purposes." *Letters Patent sealed.*

MERRELL. 1st August 1859.

1778. ELIZABETH MERRELL, of Little George Street, Minories, in the City of London, Tin and Zinc Plate Worker, for an invention for—"Improvements in apparatus for washing and cleansing." *Letters Patent sealed.*

ROWLAND. 1st August 1859.

1779. JAMES ROWLAND, of Salisbury, for an invention for—"An improved apparatus for mashing and mixing." *Letters Patent sealed.*

NEWTON. 1st August 1859.

1780. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of and apparatus for making metal cylinders suitable for steam boilers and other purposes."—*A communication from abroad by Reiner Daelen, of Hoerde, in Westphalia.* *Provisional protection only.*

NEWTON. 1st August 1859.

1781. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement applicable to salinometer cases for steam boilers."—*A communication from abroad by Joseph Grice, of New York, City in the United States of America.* *Letters Patent sealed.*

DE BASSANO. 1st August 1859.

1782. EUGENE DE BASSANO, of Brussells, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in the manufacture of artificial fuel, commonly called patent fuel." *Letters Patent sealed.*

ASHWELL. 2nd August 1859.

1783. JAMES CHARLES ASHWELL, of Dorchester Street, New North Road, in the County of Middlesex, for an invention for—"Improvements in wheels for railway and other carriages." *Provisional protection only.*

FLETCHER. 2nd August 1859.

1784. HENRY FLETCHER, of Swan Court, Manchester, in the County of Lancaster, Engraver, for an invention for—"Certain improvements in sewing and embroidering machinery." *Letters Patent sealed.*

OLORENSHAW. 2nd August 1859.

1785. HENRY OLORENSHAW, of the firm of Herbert & Olorenshaw, of Coventry, in the County of Warwick, Manufacturers, for an invention for—"An improvement in neck-ties." *Provisional protection only.*

DONKIN. 2nd August 1859.

1786. BRYAN DONKIN, of Bermondsey, in the County of Surrey, Engineer, for an invention for—"Improvements in and in connexion with slide and other valves."—*—A communication from abroad by Thomas Coates, of Sommerfeld, Silesia, Engineer.* *Letters Patent sealed.*

PIN. 3rd August 1859.

1787. AUGUSTE PIN, of Castelnaudary, in the Department of the Aude, in France, for an invention for—"The compounding, preparing, and application of a new sort of paint." *Letters Patent sealed.*

HEWETT. 3rd August 1859.

1788. JOHN HEWETT, of the firm of Hewett, Allott and Walker, Accountants, of High Street, Sheffield, in the County of York, for an invention for—"Improvements in self-acting water-closets." *Letters Patent sealed.*

PEACE. 3rd August 1859.

1789. WILLIAM KIRKBY PEACE, of the firm of W. K. and C. Peace, of Eagle Works, Sheffield, in the County of York, Manufacturer, for an invention for—"An improvement in canisters for hermetically sealing paints and other substances."—*A communication from abroad by Frederick L. Whiton, and John W. Masury, of New York, in the United States of America.* *Letters Patent sealed.*

MASON. 3rd August 1859.

1790. MARK MASON, of the City of Manchester, Engineer, for an invention for —"Improvements in machinery for printing and in apparatus connected therewith." *Provisional protection only.*

TOOTH. 3rd August 1859.

1791. WILLIAM HENRY TOOTH, of 3, Spring Terrace, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—"Improvements in machinery or apparatus for the manufacture of iron or steel." *Letters Patent sealed; no specification filed.*

FAY. 3rd August 1859.

1792. TULLIUS PRIEST FAY, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for obtaining and applying motive power." *Provisional protection only.*

PETRIE. 3rd August 1859.

1793. JOHN PETRIE the younger, of Rochdale, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for washing wool." *Letters Patent sealed.*

PHIPSON. WATSON. 3rd August 1859.

1794. JOSEPH HENRY PHIPSON, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM ARTHUR WATSON, of Birmingham aforesaid, Architect, for an invention for—"A new or improved lubricator for lubricating shafts and other articles requiring lubrication." *Provisional protection only.*

BLEWS. 3rd August 1859.

1795. WILLIAM HENRY MAXWELL BLEWS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved regulator for gas burners." *Provisional protection only.*

DOWLING. 3rd August 1859.

1796. EDWARD DOWLING, of Little Queen Street, Holborn, in the County of Middlesex, Scale Maker, for an invention for—"Improvements in rosettes or ornaments applicable to harness and for other purposes." *Provisional protection only.*

LISTER. 4th August 1859.

1797. THOMAS LISTER, of Sheepbridge, in the County of Derby, Engineer, for an invention for—"An improved sanatory watercloset." *Provisional protection only.*

HORTON. 4th August 1859.

1798. JAMES HORTON, of Handsworth, in the County of Stafford, Brewer, for an invention for—"A new or improved water gauge for steam boilers." *Letters Patent sealed.*

BROOMAN. 4th August 1859.

1799. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in mills for grinding coffee, corn and other substances."—*A communication from Joseph Poole Pirsson, residing in New York.* *Letters Patent sealed.*

CORDNER. 4th August 1859.

1800. EDWARD JAMES CORDNER, of Derramore, in the County of Down, Ireland, Clerk, for an invention for—"Improvements in the application of kites to the saving of life and property from shipwreck and to other purposes." *Letters Patent sealed.*

WALTON. 4th August 1859.

1801. FREDERICK WALTON, of Haughton Dale, Denton, near Manchester, for an invention for—"Improvements in the manufacture of ornamental fabrics suitable for bookbinding and other uses, and in machines employed in such manufacture." *Letters Patent sealed.*

TWEEDY. 5th August 1859.

1802. BENJAMIN TWEEDY, at present residing at Utrecht, in the Kingdom of the Netherlands, Engineer, for an invention for—"An improved mode of and apparatus for consuming smoke in locomotive and other engine furnaces, whereby coal can be used instead of coke." *Provisional protection only.*

GOWLAND. 5th August 1859.

1803. EDWARD BARKER GOWLAND, of Brecknock Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in pianofortes." *Provisional protection only.*

SWAINSON. 5th August 1859.

1804. EDWARD SWAINSON, of Preston, in the County of Lancaster, Worsted Spinner and Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

MAILLARD. 5th August 1859.

1805. NICHOLAS DORAN MAILLARD, of No. 18, York Street, Dublin, in Ireland, Gentleman, for an invention for—"Improvements in compasses for indicating the course and time of ships at sea without the use of needles or magnets." *Provisional protection only.*

MENNONS. 5th August 1859.

1806. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"A system of columns or monuments to be employed as sentry boxes, branch post and other offices, telegraph and fire-engine-stations."—*A communication from Irénée Leijs, residing at Amsterdam, Holland.* *Letters Patent sealed.*

BERRY. 5th August 1859.

1807. NATHANIEL BERRY, of Paris, in the Empire of France, Merchant, for an invention for—"An improvement in the manufacture of knitted fabrics."—*A communication from William Benjamin, residing in New York.* *Letters Patent sealed.*

PATTISON. 5th August 1859.

1808. ROBERT THOMSON PATTISON, residing at Daldorch, in the County of Ayr, in Scotland, for an invention for—"Improvements in dyeing certain woven fabrics." *Letters Patent sealed; no specification filed.*

NEWTON. 5th August 1859.

1809. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in billiard and bagatelle cues."—*A communication from abroad by Jonathan H. Green, of Christiansburg, in the State of Iowa, United States of America.* *Provisional protection only.*

BEAUMONT. 5th August 1859.

1810. FRANCIS WILLIAM BEAUMONT, of Clapham, in the County of Surrey, Civil, Mechanical, Mining, and Gas Engineer and Surveyor, for an invention for—"A hydraulic apparatus applicable to transmitting, regulating, and measuring the supply or flow of liquids." *Letters Patent sealed.*

THOMPSON.
5th August 1859.

1811. WARREN THOMPSON, of 45, Essex Street, Strand, London, for an invention for—"An improved printing telegraph." *Letters Patent sealed.*

DRAKE.
6th August 1859.

1812. WILLIAM RICHARD DRAKE, of No. 46, Parliament Street, Westminster, in the County of Middlesex, Gentleman, for an invention for—"An apparatus for conducting electricity in the sea and for telegraphing and sounding in deep water.—*A communication from abroad by Emile Schneider, of Ecole de droit, Saint Petersburgh, in the Empire of Russia.*" *Letters Patent sealed.*

STOCKER.
FARMER.
6th August 1859.

1813. ALEXANDER SOUTHWOOD STOCKER, and GEORGE JAMES FARMER, both of Birmingham, in the County of Warwick, Manufacturers, for an invention for —"Certain improvements appertaining to articles to be affixed to boots and shoes and to the feet of animals, and in machinery and means to be employed for producing the same." *Provisional protection only.*

GOUDENOVE.
FERET.
6th August 1859.

1814. CHARLES CLAUDE RAYMOND GOUDENOVE, and ADOLPHE FERET, both of 60, Rue Neuve St. Augustin, Paris, Merchants, for an invention for—"An improvement in gas burners."—*Partly a communication from Marie Pierre Augustin Coquet, a person residing at Paris, Rue des Trois Cornes, No. 39, Paris.* *Provisional protection only.*

CHILDS.
OWEN.
6th August 1859.

1815. AUGUSTUS BRYANT CHILDS, and LEMUEL DOW OWEN, of 192, Tottenham Court Road, London, in the County of Middlesex, Engineers, for an invention for—"Improvements in machinery for cleaning grain and seeds from smut and other extraneous matter." *Letters Patent sealed.*

DE LISLE.
6th August 1859.

1816. ALFRED THEODORE DE LISLE, of 14, Addison Road, Kensington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in clarifying and decolorizing solutions of sugar and other liquids." *Letters Patent sealed.*

SŪWERKROP.
6th August 1859.

1817. EDWARD ALBERT SŪWERKROP, of Leith, in the County of Mid Lothian, Merchant, for an invention for—"Improvements in reaping and mowing machines." *Partly a communication from abroad by François Leroy, of San Francisco.* *Letters Patent sealed.*

DELANNOY.
6th August 1859.

1818. ALBERT FRANÇOIS DELANNOY, of Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in lubricating the axles or journals of wheels, also applicable to lubricating apparatus for the transmission of motion in general." *Letters Patent sealed.*

WELCH.
6th August 1859.

1819. JOHN WELLINGTON WELCH, of Manchester, in the County of Lancaster, Warp Sizer, for an invention for—"Improvements in machinery or apparatus for sizing or dressing yarns or threads for weaving." *Provisional protection only.*

HUGHES.
6th August 1859.

1820. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for manufacturing chenille."—*A communication from abroad by Jean Baptiste Mallion, Merchant, residing at Saint Chamond (Departement de la Loire), in the Empire of France.* *Provisional protection only.*

WESTON.
8th August 1859.

1821. JOSEPH WESTON, of Fenton, in the County of Stafford, Druggist, for an invention for—"Improvements in breaks for railway carriages and in the method of applying the same, and in conveying signals from one part to another of the same train, parts of which are applicable to breaks for other purposes." *Provisional protection only.*

CUNNINGHAM.
8th August 1859.

1822. JOHN CUNNINGHAM, of Paisley, in the County of Renfrew, North Britain, Card Perforator, for an invention for "Improvements in and connected with jacquard apparatus for weaving." *Letters Patent sealed.*

LIDDLE.
8th August 1859.

1823. HENRY LIDDLE, of Middleton, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for polishing yarns or threads." *Provisional protection only.*

BROOMAN.
8th August 1859.

1824. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improved means of preventing incrustations in steam boilers."—*A communication from abroad by Louis Serbat of Saint Saulve, France.* *Letters Patent sealed.*

McCall. 8th August 1859.

1825. Robert McCall, of Ovoca, in the County of Wicklow, Civil Engineer, at present stopping at the Royal Hospital, Kilmainham, Co. Dublin, for an invention for—"Disengaging and abstracting minerals especially copper from mineral waters, more particularly from water drawn from or issuing out of copper or sulphuric mines, and for precipitating or depositing such minerals in such waters."
Provisional protection NOT granted.

Ollivier. 8th August 1859.

1826. Louis Bertrand Ollivier, of 29, Boulevart St. Martin, Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in closing or stoppering bottles, jars and other receptacles." *Letters Patent sealed.*

Baugh. 8th August 1859.

1827. Benjamin Baugh, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the mode and apparatus for partially forming and finishing the edges of certain description of vessels formed or raised from sheet iron or other metal."
Letters Patent sealed.

Johnson. 8th August 1859.

1828. John Henry Johnson, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"An improved signal light and in the apparatus employed in the production thereof."—*A communication from abroad by Messrs. Silas and Pegot Ogier, of Paris, in the Empire of France.* *Letters Patent sealed.*

Johnson. 8th August 1859.

1829. John Henry Johnson, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for steering ships, applicable also in all cases where a rotatory or partial rotatory motion is required."—*A communication from abroad by Messieurs Francois Augustin Harel and Michel Boniere, the younger, both of Paris, in the Empire of France.* *Provisional protection only.*

Bousfield. 8th August 1859.

1830. George Tomlinson Bousfield, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in revivifying the scarlet color of woollen cloth, lace and embroidery in use for military and other garments and furniture."—*A communication from abroad by Messrs. Andrés Burdel, and Chicard, of Paris.* *Provisional protection only.*

Cohen. 8th August 1859

1831. Barnet Solomon Cohen, of Magdalen Row, Great Prescot Street, in the County of Middlesex, for an invention for—"Improvements in ever pointed pencils."
Provisional protection only.

Babcock. 8th August 1859.

1832. John Brazer Babcock, of 35, Milk Street, Boston, in the United States of America, for an invention for—"Improvements in umbrellas and Parasols."—*A communication from Anthony G. Davis, residing at Waterton, Litchfield, Connecticut.*
Provisional protection only.

Blinkhorn. Blinkhorn. 8th August 1859.

1833. Thomas Blinkhorn, and Richard Blinkhorn, both of the New Road, Spalding, in the County of Lincoln, Engineers, for an invention for—"An improved composition for removing scale or fur from the interior of boilers, and also for preventing the formation of scale or fur therein." *Letters Patent sealed.*

Kenward. 9th August 1859.

1834. Nelson Kenward, of Sutton, in the County of Surrey, for an invention for—"Improvements in constructing tubular steam boilers." *Letters Patent sealed.*

Dunn. 9th August 1859.

1835. Thomas Dunn, of the City of Manchester, Engineer, for an invention for—"Improvements in machinery and apparatus for elevating and regulating the level and flow of liquids, part of which is applicable for propelling vessels."
Letters Patent sealed.

Cannon. 9th August 1859.

1836. John Cannon, of Billiter Street, in the City of London, Ship Broker, for an invention for—"Improvements in washing machines."—*A communication from abroad by Abiel Odell, of Bourmanville, in the County of Durham, Canada, Machinist.*
Letters Patent sealed.

Rolland. 9th August 1859.

1837. Pierre Francois Rolland, of Hensies, in the Province of the Hainaut, Belgium, Mechanic, for an invention for—"A new electric telegraph."
Letters Patent sealed.

Dierickx. 9th August 1859.

1838. Charles Louis Joseph Dierickx, Director of the Mint, residing at the Mint, in the City of Paris, for an invention for—"A new system of scales to be used principally in the fabrication of coins." *Letters Patent sealed.*

MITCHELL. LISTER. 9th August 1859.

1839. ISAAC MITCHELL, and SAMUEL LISTER, of Bradford, in the County of York, Machine Makers and Repairers, for an invention for—"An improvement in apparatus applicable to machinery for spinning fibrous materials."

Provisional protection only.

BOUSFIELD. 9th August 1859.

1840. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"A new and useful method of manufacturing the vulcanized compounds of vulcanizable gums."—*A communication from abroad by John Murphy, of the City, County, and State of New York.*

Complete specification; Letters Patent sealed.

BABCOCK. 9th August 1859.

1841. JOHN BRAZER BABCOCK, of 35, Milk Street, Boston, in the United States of America, for an invention for—"Improvements in bustles and skirts."—*A communication from Handle N. Daggett, residing at Attleboro', Massachusets, United States of America.* *Provisional protection only.*

LAWRENCE. 9th August 1859.

1842. FREDERIC LOUIS LAWRENCE, of 50, Berners Street, Oxford Street, in the County of Middlesex, Dentist, for an invention for—"Improvements in colouring and hardening elastic gums for dental purposes." *Letters Patent sealed.*

BRYANT. 9th August 1859.

1843. JOHN DYER BRYANT, of Rock, in the County of Cornwall, Merchant, for an invention for—"Improved superphosphate of lime." *Letters Patent sealed.*

WILLIAMSON. 9th August 1859.

1844. WELBURN WILLIAMSON, of High Holborn, in the County of Middlesex, Engineer and Machinist, for an invention for—"An improved machine or tool for drilling holes." *Provisional protection only.*

BROWNE. 9th August 1859.

1845. BENJAMIN BROWNE, of No. 52, King William Street, in the City of London, Civil Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of paints and pigments."—*A communication from abroad by Francis Gybbon Spilsbury, of Louvain, in the Kingdom of Belgium.*"

Provisional protection only.

JOHNSON. 9th August 1859.

1846. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in destroying noxious exhalations."—*A communication from abroad by Messieurs Silas and Pegot-Ogier, of Paris, in the Empire of France.* *Provisional protection only.*

MACLELLAN. 9th August 1859.

1847. WALTER MACLELLAN, of Glasgow, in the County of Lanark, North Britain, Iron Merchant, for an invention for—"Improvements in parts of the permanent way of railways."—*A communication from abroad by John Gregory of Lisbon, in the Kingdom of Portugal, Engineer.* *Letters Patent sealed.*

WAITE. 9th August 1859.

1848. JOSEPH WAITE, of Cheltenham, in the County of Gloucester, Chemist, for an invention for—"Improvements in making infusions for pharmaceutical purposes, which improvements are also applicable to other purposes of a similar nature."

Letters Patent sealed.

MUIR. 10th August 1859.

1849. WILLIAM MUIR, of the Britannia Works, in the City of Manchester, Engineer, for an invention for—"Improvements in machinery for communicating motion to foot lathes and other machines to be worked by treadles."

Letters Patent sealed.

TEMPERTON. 10th August 1859.

1850. THOMAS ATO TEMPERTON, of the City of Manchester, in the County of Lancaster, Corn Merchant, for an invention for—"Improvements in pipes for smoking tobacco." *Provisional protection only.*

WESTLY. 10th August 1859.

1851. WILLIAM KING WESTLY, of Leeds, in the County of York, Machinist, for an invention for—"Improved machinery for combing, heckling, and preparing to be spun flax and other fibrous substances." *Letters Patent sealed.*

CAPPER. 10th August 1859.

1852. GEORGE CAPPER, of Bidborough Street, New Road, in the County of Middlesex, for an invention for—"Improvements in the permanent way of railways."

Letters Patent sealed.

SHAW. 10th August 1859.

1853. ALEXANDER SHAW, of the firm of Alexander Shaw and Company, of The Earle's Field Works, Grantham, in the County of Lincoln, Leather Dressers and Fell-mongers, and Glue and Parchment Manufacturers, for an invention for—"Certain modes or methods of preparing sheep or other skins or pelts or the linings thereof, and for raising nap on the same, and also for preparing the said skins for kid leather, and for enamelling and japanning the same." *Provisional protection only.*

SPEED.
10th August 1859.

1854. JOHN JAMES SPEED the younger, of the City of Detroit, in the United States of America, Telegraph Engineer, for an invention for—"Improvements in the manufacture of pipes, tubes, and hollow cylinders." *Letters Patent sealed.*

HEATON.
HEATON.
11th August 1859.

1855. RALPH HEATON the younger, of Birmingham, in the County of Warwick, Manufacturer, and GEORGE HEATON, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in coining machinery." *Letters Patent sealed.*

WHITE.
11th August 1859.

1856. WILLIAM WHITE, of 34, North Audley Street, Grosvenor Square, for an invention for—"A four-wheeled safety sociable carriage." *Letters Patent sealed.*

PITMAN.
11th August 1859.

1857. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"A composition applicable to the lubrication of machinery, and to various other uses."—*A communication from abroad by Horace Vaughn, of the City of Providence, in the State of Rhode Island, one of the United States of North America.* *Letters Patent sealed.*

BOUCH.
11th August 1859.

1858. WILLIAM BOUCH, of Shildon, in the County of Durham, Engineer, for an invention for—"Improvements in breaks, in buffers, and in couplings to be used on railways." *Letters Patent sealed.*

HULETT.
PRUDDEN.
11th August 1859.

1859. DAVID HULETT, of 55 & 56, High Holborn, London, Gas Engineer, and GEORGE PRUDDEN, of Shefford, Beds., Gas Engineer, for an invention for—"Improvements in apparatus for the manufacture and distribution of gas, and in apparatus applicable for internal or external illumination. *Letters Patent sealed.*

DE LA RUE.
MÜLLER.
11th August 1859.

1860. WARREN DE LA RUE, Manufacturer, and Dr. HUGO MÜLLER, both of 110, Bunhill Row, in the County of Middlesex, for an invention for—"Improvements in treating japan and other vegetable wax." *Letters Patent sealed.*

POSSOZ.
12th August 1859.

1861. LOUIS ANTOINE POSSOZ, of No. 37, Rue de Rivoli, in the City of Paris, in the Empire of France, Chemist, for an invention for—"Improvements in the manufacture and baking of sugars." *Letters Patent sealed.*

CLARK.
12th August 1859.

1862. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements in oscillating engines."—*A communication from abroad by Messrs. Mark Runkel, of New York City, and Fredrick Franch, of San Francisco, in the State of California.* *Letters Patent sealed.*

EVAUX.
12th August 1859.

1863. AUGUSTE EVAUX, of 206, Regent Street, London, for an invention for—"Artificial marbles." *Letters Patent sealed.*

TOOTH.
12th August 1859.

1864. WILLIAM HENRY TOOTH, of No. 3, Spring Terrace, Wandsworth Road, in the County of Surrey, for an invention for—"Improvements in the mode of cleaning or laying the dust of pavements, roads, or other surfaces." *Provisional protection only.*

PHILP.
12th August 1859.

1865. JAMES PHILP, of Camden Town, in the County of Middlesex, Gentleman, for an invention for—"An improved hobby-horse or child's exerciser." *Provisional protection only.*

LABIN.
12th August 1859.

1866. HIRSCH LABIN, Merchant, of Jassy (Moldavia), for an invention for—"Improved machinery applicable to musical and telegraphic instruments." *Provisional protection NOT granted.*

CAMPBELL.
13th August 1859.

1867. DUGALD CAMPBELL, of No. 7, Quality Court, Chancery Lane, in the County of Middlesex, Consulting Chemist, for an invention for—"Improvements in the preparation of oils for medicinal and other purposes." *Letters Patent sealed.*

BROWN.
13th August 1859.

1868. JAMES BROWN, of No. 8, Exeter Place, Walham Green, in the County of Middlesex, Shirt Manufacturer, for an invention for—"Improving false shirt fronts." *Provisional protection only.*

CLEGG.
SAUNDERS.
13th August 1859.

1869. ROBERT DAWSON CLEGG, of Islington, in the County of Middlesex, Gentleman, and THOMAS SAUNDERS, of Islington, in the said County, Mechanic, for an invention for—"Improvements in locks." *Provisional protection only.*

GREEN.
FAWCETT.
FAWCETT.
13th August 1859.

1870. WILLIAM GREEN, of Kidderminster, WILLIAM FAWCETT, of Wolverley, and FRANCIS BEST FAWCETT, of Wolverley, all in the County of Worcester, Carpet Manufacturers, for an invention for—"Improvements in the manufacture of rugs." *Letters Patent sealed.*

CLEGG.
FELL.
13th August 1859.

1871. ROBERT CLEGG, of Islington, in the County of Middlesex, and RICHARD FELL, of Saint Ann's Place, Limehouse, in the County of Middlesex, for an invention for—"Apparatus for obtaining aërated fresh water from salt water."
Letters Patent sealed.

STUART.
STUART.
13th August 1859.

1872. JOHN STUART, of Musselburgh, in the County of Mid Lothian, North Britain, and WILLIAM STUART, of the same place, Manufacturers, for an invention for—"Improvements in nets for fishing and for other purposes."
Letters Patent sealed.

BÜHRING.
13th August 1859.

1873. KARL BÜHRING, of No. 45, St. Paul's Road, Camden Town, in the County of Middlesex, Gentleman, for an invention for—"An improvement in obtaining spring power, and in its application to various purposes." *Letters Patent sealed.*

WATTS.
OFFORD.
THOMAS.
13th August 1859.

1874. RICHARD IRELAND WATTS, of Plymouth, in the County of Devon Merchant, JOHN OFFORD, of the same place, Gentleman, and JOHN ROBERTS THOMAS, also of the same place, Engineer, for an invention for—"A method of condensing and consuming smoke and other products of coals, ores, and similar substances, and reducing them to useful materials." *Provisional protection only.*

LAMBERT.
13th August 1859.

1875. HENRY THOMAS LAMBERT, of America Square, in the City of London, Ship Chandler, for an invention for—"Improved apparatus to be adapted to ships' tackle or boats for the purpose of facilitating the disengaging of ships' boats when lowered into the water."—*A communication from abroad by Captain George Hall Carleton, of Camden, in the State of Maine, United States of America.*
Letters Patent sealed.

SLOMAN.
13th August 1859.

1876. ELIAS SLOMAN, of Upper East Smithfield, in the County of Middlesex, for an invention for—"An improved feed water and heating apparatus."—*A communication from Gottfreyd May, resident at Magdeburch, in the Kingdom of Prussia.*
Letters Patent sealed.

ROSTRON.
13th August 1859.

1877. JAMES ROTHWELL ROSTRON, of Edenfield, in the County of Lancaster, for an invention for—"Improvements in locomotive furnaces."
Provisional protection only.

MATHER.
13th August 1859.

1878. COLIN MATHER, of Salford, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in machinery for stretching, drying, and finishing fabrics." *Letters Patent sealed.*

HARRISON.
15th August 1859.

1879. SAMUEL HARRISON, of 52, Stanhope Street, Clare Market, in the Parish of St. Clement Danes, County of Middlesex, for an invention for—"Broiling of chops or any other kind of meat." *Letters Patent sealed.*

JEYES.
15th August 1859.

1880. JOHN JEYES, of Northampton, in the County of Northampton, Seed Merchant, for an invention for—"An improvement in the manufacture of boots and shoes." *Provisional protection only.*

KISKY.
JONES.
15th August 1859.

1881. CHARLES KISKY, of King Street, Camden Town, in the County of Middlesex, Cabinet Maker, and WILLIAM JONES, of Howland Street, Fitzroy Square, in the same County, Builder, for an invention for—"Improvements in the construction of sideboards." *Provisional protection only.*

GLASSBOROW.
15th August 1859.

1882. CHARLES GLASSBOROW, of Girard Avenue, Philadelphia, in the United States of America, Piano Manufacturer, for an invention for—"Improvements in pianos." *Letters Patent sealed.*

CHANTER.
ANNAN.
15th August 1859.

1883. JOHN CHANTER, of Bow Road, Proprietor of Patents, and DAVID ANNAN, Engineer, of Bow, both in the County of Middlesex, for an invention for—"Improvements in apparatus for supplying air to furnaces." *Letters Patent sealed.*

STONE.
15th August 1859.

1884. EDWARD STONE, of 46, Lime Street, in the City of London, Merchant, for an invention for—"Improvements in machinery for cutting veneers."—*A communication from abroad by John Ahsbohs, residing at New York, United States of America.*
Letters Patent sealed.

POUPARD.
15th August 1859.

1885. JOHN POUPARD, of Stratford, in the County of Essex, for an invention for—"A certain plastic combination to be used for blackleading stoves and other iron-work." *Letters Patent sealed.*

LEATHAM. 16th August 1859.

1886. WILLIAM LEATHAM, of Leeds, in the County of York, Engineer, for an invention for—"An improved double acting superlative screw throttle valve." *Provisional protection only.*

BATCHELOR. 16th August 1859.

1887. HENRY BATCHELOR, of Newport, Monmouthshire, Engineer, for an invention for—"Improvements in steam and other motive-power engines." *Letters Patent sealed.*

GREAT REX. 16th August 1859.

1888. JOHN HENRY GREAT REX, of Regent's Quadrant, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of dwelling houses or other buildings for the purpose of facilitating the escape of the inmates in case of fire." *Provisional protection only.*

GOSSAGE. 16th August 1859.

1889. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the treatment of certain offensive liquids and of noxious gases liberated from such liquids." *Provisional protection only.*

HADDAN. 16th August 1859.

1890. JOHN COOPE HADDAN, of Bessborough Gardens, Pimlico, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in wads for projectiles and in projectiles to be used therewith." *Provisional protection only.*

HADDAN. 16th August 1859.

1891. JOHN COOPE HADDAN, of Bessborough Gardens, Pimlico, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for rifling cannon." *Provisional protection only.*

SIDEBOTTOM. 17th August 1859.

1892. JAMES SIDEBOTTOM, of Waterside, in the County of Derby, Cotton Spinner, for an invention for—"Certain improvements in power looms for weaving." *Letters Patent sealed.*

MEDLOCK. 17th August 1859.

1893. HENRY MEDLOCK, of Nos. 15 & 20, Great Marlborough Street, in the City and Liberty of Westminster, Analytical Chemist, for an invention for—"Improvements in Portland and Roman cement, lime, and other similar kilns or furnaces." *Letters Patent sealed.*

NEWTON. 17th August 1859.

1894. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction of carriages, and in apparatus for guiding or reining in carriage horses."—*A communication from abroad by Isaac M. Singer, of New York, in the United States of America.* *Letters Patent sealed.*

BROOMAN. 17th August 1859.

1895. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in locks and keys."—*A communication from abroad by Jules Emile Petit, of Paris.* *Letters Patent sealed.*

BEARDMORE. 17th August 1859.

1896. SEPTIMUS BEARDMORE, of No. 27, Albion Street, Hyde Park, London, Civil Engineer, for an invention for—"Improvements in electric batteries." *Provisional protection only.*

YOCKNEY. 17th August 1859.

1897. AUGUSTUS YOCKNEY, of Pockeredge, near Chippenham, in the County of Wilts, Gentleman, for an invention for—"Improvements in refining and compounding oils or fatty matters with other substances for lubricating and other purposes." *Letters Patent sealed.*

GRIMSHAW. MASON. 18th August 1859.

1898. WESTON GRIMSHAW, of Lower Broughton, near the City of Manchester, Gentleman, and SAMUEL MASON, Junior, of the City of Manchester, Machinist, for an invention for—"Improvements in machinery and apparatus employed in washing, bowking, bleaching, and preparing flax and other substances." *Letters Patent sealed.*

DRABBLE. 18th August 1859.

1899. JAMES DRABBLE, of Orchard Works, Orchard Lane, in the Parish of Sheffield, County of York, Merchant and Manufacturer of Table Knives, for an invention for—"An improvement in sewing machines." *Provisional protection only.*

CANU. 18th August 1859.

1900. ADOLPHE JOSEPH CANU, of Paris, France, Civil Engineer, for an invention for—"Improvements in machines for breaking or crushing stones, minerals, or other similar materials." *Letters Patent sealed.*

HYAMS. 18th August 1859.

1901. HYAM JACOB HYAMS, of Holywell Street, in the City of Westminster, Gas Meter Maker, for an invention for—"Improvements in the construction of wet gas meters." *Letters Patent sealed.*

WILSON.
WILSON.
POWER.
18th August 1859.

1902. FREDERICK WILSON, of Florence, in the State of Tuscany, Engineer, EDWARD BROWN WILSON, of 35, Parliament Street, in the City of Westminster, Engineer, and FREDERICK AUGUSTUS DOBBIN NUGENT POWER, of 38, Inverness Terrace, Hyde Park, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the employment of certain refuse or materials arising from or accruing in the manufacture of gas." *Provisional protection NOT granted.*

WILSON.
18th August 1859.

1903. WILLIAM WILSON, of Glasgow, in the County of Lanark, North Britain, Brick Maker, for an invention for—"Improvements in the manufacture or production of bricks, tiles, and other articles of earthenware, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

SALMON.
19th August 1859.

1904. PETER SALMON, of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in locomotives, and in apparatus for warming trains of carriages connected thereto." *Letters Patent sealed.*

HENLEY.
19th August 1859.

1905. WILLIAM THOMAS HENLEY, Telegraph Engineer, of St. John Street Road, Clerkenwell, in the County of Middlesex, for an invention for—"Improvements in machinery for the manufacture of ropes and cables, and for paying out and picking up submarine telegraph cables." *Letters Patent sealed.*

BOULT.
19th August 1859.

1906. SWINTON BOULT, of Liverpool, in the County of Lancaster, Actuary, for an invention for—"Improvements in the means of or apparatus for retarding railway carriages." *Provisional protection only.*

JACKSON.
THORLEY.
19th August 1859.

1907. JOHN JACKSON, of Worsley, in the County of Lancaster, Joiner, and JOSEPH THORLEY, of the same place, Overlooker, for an invention for—"Improvements in hoists for raising and lowering weights." *Letters Patent sealed.*

FOWLER. GREIG.
BURTON. ALLEN.
WORBY.
19th August 1859.

1908. JOHN FOWLER, Junior, ROBERT BURTON, and DAVID GREIG, Junior, all of Cornhill, in the City of London, EDWARD ELLIS ALLEN, of Park Side, Knightsbridge, and WILLIAM WORBY, of Ipswich, for an invention for—"Improvements in ploughs, cultivators or tilling implements, and in machinery for giving motion to the same by steam power." *Letters Patent sealed.*

HARMAN.
19th August 1859.

1909. HENRY WILLIAM HARMAN, of Manchester, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in steam boilers and in working the same, and in safety valves and apparatus connected therewith." *Letters Patent sealed.*

GREGORY.
22nd August 1859.

1910. JOHN GREGORY, of Barreiro, in the Kingdom of Portugal, Engineer, for an invention for—"Improvements in locomotive and other steam-engines." *Letters Patent sealed.*

HARDON.
22nd August 1859.

1911. EDWIN HARDON, of Stockport, in the County of Chester, Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed and specification filed by order.*

FINEGAN.
22nd August 1859.

1912. WILLIAM FINEGAN, of Belfast, in the County of Antrim, Ireland, Engineer, for an invention for—"Improvements in apparatus for lubricating machinery." *Letters Patent sealed.*

GRANT.
22nd August 1859.

1913. DAVID GRANT, of Edinburgh, in the County of Mid Lothian, North Britain, Gas Meter Manufacturer, for an invention for—"Improvements in wet gas meters." *Provisional protection only.*

PETTER.
GALPIN.
22nd August 1859.

1914. GEORGE WILLIAM PETTER, and THOMES DIXON GALPIN, both of Belle Sauvage Yard, Ludgate Hill, in the City of London, Printers and Copartners, for an invention for—"Improvements in printing presses." *Letters Patent sealed.*

VÉREL.
22nd August 1859.

1915. WILLIAM ARISTIDES VÉREL, of Macduff, in the County of Banff, Merchant, for an invention for—"Improvements in the preparation of bones for manure." *Letters Patent sealed.*

BROOMAN.
22nd August 1859.

1916. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in apparatus for preparing and spinning fibrous materials."—*A communication from abroad by Felix Edmond Lemaire, residing at Paris.* *Letters Patent sealed.*

TAYLOR. 22nd August 1859. — 1917. JOSEPH JEPSON ODDY TAYLOR, of Mark Lane, in the City of London, Naval Engineer, for an invention for—"An improvement in the separation of silex and silicious matter from iron." *Letters Patent sealed.*

SPRATT. 22nd August 1859. — 1918. HENRY SPRATT, of the Royal Marine Barracks, Plymouth, in the County of Devon, Captain Royal Marines, for an invention for—"Improvements in revolving pistols and other fire arms." *Letters Patent sealed; specification filed by order.*

TALBOT. 22nd August 1859. — 1919. The Honorable WILLIAM TALBOT, of the Army and Navy Club, Pall Mall, in the county of Middlesex, for an invention for—"An improved cigar lighter." *Letters Patent sealed.*

PARKES. 22nd August 1859. — 1920. HENRY PARKES, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of cylinders and tubular or hollow bodies of copper and alloys of copper or other ductile metals." *Letters Patent sealed.*

ABBOTT. 22nd August 1859. — 1921. EDWARD ABBOTT, of Brunswick Square, in the County of Middlesex, Merchant, for an invention for—"Improvements in ordnance and fire arms." *Letters Patent sealed.*

MAGGS. 22nd August 1859. — 1922. OLIVER MAGGS, of Bourton, in the County of Dorset, for an invention for—"Improvements in taps, cocks or valves." *Letters Patent sealed.*

HARVEY. 22nd August 1859. — 1923. RICHARD SUTTON HARVEY, of Lincoln, for an invention for—"Improvements in apparatus for dusting vines, hops, and other plants and trees with sulphur and other powder." *Provisional protection only.*

HOPE. 23rd August 1859. — 1924. ASHFIELD CHURCH HOPE, of No. 60, Cornhill, in the City of London, Gentleman, for an invention for—"The manufacture of a new material from Spanish moss applicable as a substitute for horse hair."—*A communication from abroad by William Amos Scarbrough Westoby, of No. 45, Rue Taitbout, Paris, France.* *Provisional protection only.*

DE LA SALLE. 23rd August 1859. — 1925. PAOLINO FRANCESCO CHERPANTIERI DE LA SALLE, of Nice, Italy, Musical Instrument Maker, for an invention for—"A new method of arranging the keys on the fingerboards of pianos, organs and other similar instruments." *Provisional protection only.*

HILL. 23rd August 1859. — 1926. WILLIAM HENRY HILL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement in the manufacture of boxes or cases and in fastenings for the same." *Letters Patent sealed.*

FRY. 23rd August 1859. — 1927. THOMAS FRY, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"The application of enamelled slate to the new purpose of lining, panelling, or otherwise facing the internal or external walls of houses, public-buildings, and edifices generally." *Provisional protection only.*

HOLLINS. HYDE. 23rd August 1859. — 1928. WILLIAM HOLLINS, of Glossop, in the County of Derby, Overlooker, and FREDERICK HYDE, of the same place, Mechanic, for an invention for—"Improvements in power looms for weaving, part of which improvements is also applicable to other machines driven by power." *Letters Patent sealed.*

MAGGS. 23rd August 1859. — 1929. OLIVER MAGGS, of Bourton, in the County of Dorset, for an invention for—"Improvements in apparatus for weaving straw rushes and other materials into fabrics." *Provisional protection only.*

RICHARDSON. 23rd August 1859. — 1930. THOMAS RICHARDSON, of New Bridge Street, Newcastle-on-Tyne, for an invention for—"Improvements in treating copper ores." *Letters Patent sealed.*

PEARSON. 24th August 1859. — 1931. GEORGE PEARSON, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improved machinery for manufacturing boots and shoes." *Letters Patent sealed.*

RILEY. 24th August 1859. — 1932. GEORGE RILEY, of Elm Tree Lodge, South Lambeth, in the County of Surry, for an invention for—"Improvements on helical refrigerators for cooling brewers' and distillers' worts." *Letters Patent sealed.*

HENRY. ANDREW. 24th August 1859. — 1933. JOSEPH HENRY, of Bury, in the County of Lancaster, and JAMES EDWARD HYDE ANDREW, of Audenshaw, in the said County, Machinists, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

BLAKE.
24th August 1859.

1934. JOHN BLAKE, of Accrington, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam and vacuum gauges."
Letters Patent sealed.

RUSSELL.
RUSSELL.
24th August 1859.

1935. DANIEL RUSSELL, of 1, Grove Cottage, Southampton Street, Camberwell, in the County of Surrey, and JONATHAN RUSSELL, of 6, Devonshire Terrace, Queen's Road, Peckham, in the County of Surrey, for an invention for—"Improving the means of docking and lifting ships out of the water for the purpose of examining and cleaning their bottoms, effecting any necessary repairs, fixing new screw propellor, rudder, raising sunken vessels, or anything else for which it is desirable to get at any portion of a vessel generally underwater."
Letters Patent sealed.

BRIGGS.
24th August 1859.

1936. THOMAS BRIGGS, of Richmond Hill Works, Salford, in the County of Lancaster, Tarpauling and Oil Cloth Manufacturer, for an invention for—"Improvements in the manufacture of tarpauling." *Letters Patent sealed.*

MURRAY.
24th August 1859.

1937. JAMES MURRAY, Knight, of Dublin, Doctor of Medicine, for an invention for—"Improvements in the preparation and bottling or preserving of carbonated cod liver oil and other aërated liquids." *Letters Patent sealed.*

JUDKINS.
24th August 1859.

1938. CHARLES TIOT JUDKINS, of No. 22, Ludgate Street, in the City of London, Dealer in Sewing Machines, for an invention for—"Improvements in sewing machines." *Letters Patent sealed.*

SMITH.
ASHBY.
25th August 1859.

1939. HENRY SMITH, and THOMAS WOODHOUSE ASHBY, of Stamford, in the County of Lincoln, Agricultural Implement Makers, for an invention for—"An improved construction of harrow."—*A communication from abroad by Messrs. J. Pintus & Co., of Berlin, in the Kingdom of Prussia.* *Letters Patent sealed.*

PERKINS.
25th August 1859.

1940. LOFTUS PERKINS, of Francis Street, Gray's Inn Road, in the County of Middlesex, for an invention for—"Improvements in mills."—*A communication from abroad by James Bogardus, of Duane Street, New York.* *Provisional protection only.*

CHAMBERLAIN.
25th August 1859.

1941. AMOS PIERCE CHAMBERLAIN, of New Orleans, in the United States of America, but at present residing in London, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting cork, part of which improvements is also applicable to cutting paper, caoutchouc, and other substances."
Letters Patent sealed.

BILLING.
26th August 1859.

1942. MARTIN BILLING, of High Holborn, in the County of Middlesex, for an invention for—"An improved mode of ornamenting and finishing certain articles of hardware." *Complete specification; protection for SIX months only.*

FURRELL.
26th August 1859.

1943. JAMES FURRELL, of No. 5, Upper Phillimore Place, Kensington, in the County of Middlesex, Gentleman, for an invention for—"A lock protector consisting of an adhesive shield or cover to be placed over the keyhole of a lock for the purpose of ensuring that any access to the interior of the lock shall be readily detected."
Provisional protection only.

STARK.
26th August 1859.

1944. MICHAEL JOHN STARK, of the City of Norwich, Chemist and Merchant, for an invention for—"Producing a new chemical or artificial manure from bones and all such animal and fatty matters." *Complete specification; Letters Patent sealed.*

BIRD.
26th August 1859.

1945. THOMAS BIRD, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in castors." *Letters Patent sealed.*

HETHERINGTON.
26th August 1859.

1946. JOHN MUIR HETHERINGTON, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for carding cotton wool and other fibrous materials." *Letters Patent sealed.*

GRUNDT.
26th August 1859.

1947. HERRMANN GRUNDT, of America Square, for an invention for—"Improvements in life boats." *Provisional protection only.*

MACLELLAN.
26th August 1859.

1948. WALTER MACLELLAN, of Glasgow, in the County of Lanark, North Britain, Iron Merchant, for an invention for—"Improvements in rolling or shaping iron for railway spikes and other purposes." *Provisional protection only.*

BOUTET.
26th August 1859.

1949. CHARLES THOMAS BOUTET, of No. 12, Chenies Street, Tottenham Court Road, London, in the County of Middlesex, for an invention for—"A new mechanical mill proper for milling every sort of grains, dried or torrified, such as coffee and cocoa." *Provisional protection only.*

HANSON. 27th August 1859.	1950. CHARLES HANSON, of Huddersfield, in the County of York, Watch Maker, for an invention for—"An improvement in the chronometer escapement of a watch." *Letters Patent sealed.*
WRIGLEY. 27th August 1859.	1951. FRANCIS WRIGLEY, of Manchester, in the County of Lancaster, Consulting Engineer, for an invention for—"Certain improvements in the construction of the permanent way of railways." *Letters Patent sealed.*
ROSTRON. 27th August 1859.	1952. JAMES ROTHWELL ROSTRON, of Edenfield, in the County of Lancaster, for an invention for—"Improvements in furnace bars." *Provisional protection only.*
BALMAIN. 27th August 1859.	1953. WILLIAM HENRY BALMAIN, of St. Helen's, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of glass and other vitrified substances." *Provisional protection only.*
CRAVEN. 27th August 1859.	1954. THOMAS CRAVEN, of Scarborough, in the County of York, Plumber, for an invention for—"Improvements in ball cocks or valves." *Letters Patent sealed.*
BELL. 27th August 1859.	1955. GEORGE BELL, of South Inch-Michael, in the County of Perth, North Britain, Farmer, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*
HECKETHORN. 27th August 1859.	1956. JOHN HECKETHORN, of No. 32, Stanmore Street, Caledonian Road, in the County of Middlesex, for an invention for—"Improvements in candles and wicks, also in lamps or candlesticks for using with the same." *Provisional protection only.*
PHILP. 27th August 1859.	1957. JAMES PHILP, of Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of soap."—*A communication from abroad by Professor Packer, residing at Newark, United States.* *Provisional protection only.*
RETTIG. 27th August 1859.	1958. EMIL RETTIG, of New Cross, in the County of Kent, Merchant, for an invention for—"Improvements in the form and construction of anchors."—*Partly a communication from abroad by Ferdinand Martin, of Marseilles, in the French Empire, Merchant.* *Letters Patent sealed.*
WHITWORTH. 29th August 1859.	1959. JOSEPH WHITWORTH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in ordnance, fire arms, and ammunition." *Letters Patent sealed.*
MERITON. 29th August 1859.	1960. THOMAS MERITON, of 39, Pinnasberg Saint Pauli, Hamburgh, Engineer, for an invention for—"Improvements in governors for regulating the speed of marine and other engines and machinery." *Provisional protection only.*
KERMAN. 29th August 1859.	1961. CHARLES KERMAN, of the Vulcan Iron Works, Millbrook, near Southampton, for an invention for—"An apparatus to prevent the sinking of vessels through leakage, for lifting and floating vessels off when stranded, and for raising and floating sunken vessels." *Provisional protection only.*
HOWARTH. 29th August 1859.	1962. JESSE RALPH HOWARTH, of Manchester, in the County of Lancaster, Finisher, for an invention for—"Certain improvements in machinery or apparatus for calendering and finishing textile fabrics or other surfaces." *Provisional protection only.*
CLARK. 29th August 1859.	1963. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements in sewing and stitching by machinery."—*A communication from abroad by Kasimir Vogel, of Chelsea, in the County of Suffolk, and State of Massachusetts.* *Letters Patent sealed.*
EDWARDS. 29th August 1859.	1964. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, for an invention for—"Improvements in the manufacture of buttons." *Provisional protection only.*
TODD. 29th August 1859.	1965. DAVID TODD, of Bridge-of-Weir, in the County of Renfrew, North Britain, Mill Manager, for an invention for—"Improvements in machinery or apparatus for carding and treating or preparing fibrous materials." *Letters Patent sealed.*

BAUGH.
29th August 1859.

1966. BENJAMIN BAUGH, Manager of Salt's Patent Enamel Works, Bradford Street, Birmingham, in the County of Warwick, for an invention for—"Certain improved machinery or mechanical arrangements for raising or giving form to articles formed of sheet metal, such as knobs, thimbles, ferules, and parts of umbrella and parasol furniture, button shells, and other such like small articles."

Letters Patent sealed.

FLEMING.
29th August 1859.

1967. GILBERT STANTON FLEMING, of 498, New Oxford Street, in the County of Middlesex, for an invention for—"A head-rest suitable for keeping the head in a comfortable position in travelling, sitting, or lying down."

Provisional protection only.

BESLEY.
29th August 1859.

1968. ROBERT BESLEY, of Fann Street, Aldersgate Street, in the City of London, Type Founder, for an invention for—"Improvements in machinery for printing and for numbering and perforating documents."—*A communication from abroad by William Shaw, of Melbourne, in the Colony of Victoria, Australia.*

Provisional protection only.

BARNES.
LOACH.
30th August 1859.

1969. JOHN BOWEN BARNES, of Summer Lane, Birmingham, in the County of Warwick, and JOHN LOACH, Japanner, of Caroline Street, Birmingham, as aforesaid, for an invention for—"Certain improvements in oars for impelling boats as also in the row-locks in which they work." *Letters Patent sealed.*

JOHNSON.
30th August 1859.

1970. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings."—*A communication from abroad by Joseph Harrison, the younger, of the City of Philadelphia, in the State of Pennsylvania, in the United States of America, Engineer.* *Letters Patent sealed.*

HARE.
30th August 1859.

1971. JAMES HARE, of Hamstead Road, Handsworth, near Birmingham, Music Smith, for an invention for—"Improvements in piano fortes."

Letters Patent sealed.

COLLIER.
30th August 1859.

1972. GEORGE COLLIER, of 23, Elizabeth Street, Eaton Square, in the County of Middlesex, for an invention for—"Improvements in chairs and couches."

Letters Patent sealed.

EASTMAN.
30th August 1859.

1973. THOMAS EASTMAN, of Southsea, in the County of Hants, Naval Instructor, for an invention for—"Improvements in screw propellers."—*A communication from abroad by James Shepard, residing at Buffalo, United States.*

Letters Patent sealed.

FIELD.
30th August 1859.

1974. JOSHUA FIELD, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus for superheating steam."

Letters Patent sealed.

CHAMBERS.
CHAMBERS.
30th August 1859.

1975. CHARLES CHAMBERS, & JAMES CHAMBERS, of Archer Street, Westbourne Grove, in the County of Middlesex, Engineers, for an invention for—"Improvements in apparatus for sawing staves and other forms of wood."

Provisional protection only.

HUTTON.
30th August 1859.

1976. HENRY HUTTON, of Palace Road, Lambeth, in the County of Surrey, for an invention for—"An improved lubricator." *Letters Patent sealed.*

DRURY.
DRURY.
30th August 1859.

1977. ROBERT FRANCIS DRURY, & ENSOR DRURY, of the firm of Drury Brothers, the Don Tool Works, Sheffield, in the County of York, Machinists and Tool Makers, for an invention for—"Improvements in vices." *Letters Patent sealed.*

COWGILL.
STOCKS.
31st August 1859.

1978. JAMES COWGILL, and JOHN STOCKS, both of Bradford, in the County of York, Mechanics, for an invention for—"Improvements in 'caps' for spinning fibrous substances, and in the means or method of manufacturing the same."

Letters Patent sealed.

NUTTALL.
31st August 1859.

1979. JAMES NUTTALL, of Todmorden, in the County of York, Cotton Spinner and Manufacturer, for an invention for—"Certain improvements in and applicable to machinery used in preparing and spinning cotton and other fibrous materials."

Letters Patent sealed.

Von Kanig. 31st August 1859.	**1980.** Wilhelm Adolf Von Kanig, of Hardinge Street, Islington, in the County of Middlesex, for an invention for—"Improvements in the manufacture of starch and compounds of starch, and in extracting gum, dextrine, and grape sugar therefrom." *Letters Patent sealed.*
Beverley. 31st August 1859.	**1981.** Robert Beverley, of Leeds, in the County of York, Gas Meter Maker, for an invention for—"Improvements in wet gas meters." *Letters Patent sealed.*
Fleming. 31st August 1859.	**1982.** Gilbert Stanton Fleming, of 498, New Oxford Street, in the County of Middlesex, for an invention for—"Improvements in candles for the purpose of indicating time, and the facility of lighting the same." *Provisional protection only.*
Middleton. 31st August 1859.	**1983.** Samuel Middleton, of Blackfriars Road, in the County of Surrey, Cordwainer, for an invention for—"Improvements in the mode or method of uniting and otherwise manufacturing articles of leather and such like materials, and in the apparatus and machinery connected therewith." *Letters Patent sealed.*
MacKenzie. Wentworth. 31st August 1859.	**1984.** James MacKenzie, of Saint Martin's le Grand, in the County of Middlesex, and Stephen Thomas Wentworth, of the same place, Gas Engineers, for an invention for—"Improvements in breech loading fire arms" *Letters Patent sealed.*
Smith. 31st August 1859.	**1985.** Augustus Smith, of Brentwood, in the County of Essex, Manufacturer, for an invention for—"Improvements in machinery for the preparation of cocoa-nut fibre." *Letters Patent sealed.*
Samuel. 31st August 1859.	**1986.** James Samuel, of Great George Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in railway sleepers." *Letters Patent sealed.*
Higgin. 31st August 1859.	**1987.** Henry Higgin, of Bow, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for cutting and preparing match splints." *Letters Patent sealed.*
Berge. 31st August 1859.	**1988.** Louis Berge, of Newgate Street, in the City of London, Manufacturer of Leather Goods, for an invention for—"An improved method of fastening or securing portemonnaies, bags, and other like articles with frames." *Letters Patent sealed.*
Brooman. 31st August 1859.	**1989.** Richard Archibald Brooman, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in treating auriferous and argentiferous ores and substances."—*A communication from abroad by Dr. Raoul Destrem, residing at Paris.* *Provisional protection only.*
Ellis. 31st August 1859.	**1990.** Edwin Ellis, of St. Ann's Well Road, Nottingham, for an invention for—"Improvements in finishing silk fabrics made on bobbin net and warp frames." *Letters Patent sealed.*
Chatterton. 31st August 1859.	**1991.** John Chatterton, of Devonshire Street, Islington, in the County of Middlesex, for an invention for—"Improvements in the manufacture of tubes of gutta percha and other substances capable of being moulded in a similar manner when in a plastic state, and also in coating wire and other cores with such substances." *Letters Patent sealed*
Brine. 1st September 1859.	**1992.** James Brine, of Maidstone, in the County of Kent, Stationer and Printer, for an invention for—"Improvements in the mode of preparing, arranging, and combining the leaves of books to be used for producing simultaneously one or more fac-simile copies of letters, accounts or other such similar documents or writings." *Provisional protection only.*
Simpson. 1st September 1859.	**1993.** John Anderson Simpson, of Liverpool, in the County of Lancaster, Hat Manufacturer, for an invention for—"Improvements applicable to hats and other coverings for the head." *Letters Patent sealed.*
Taylor. 1st September 1859.	**1994.** John George Taylor, of Paris, and Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in writing materials and in the manufacture thereof." *Provisional protection NOT granted.*
Aveling. 1st September 1859.	**1995.** Thomas Aveling, of Rochester, in the County of Kent, for an invention for—"Improvements in locomotive engines." *Letters Patent sealed.*
Borrington. 1st September 1859.	**1996.** James Borrington, of Derby, in the County of Derby, Plumber, for an invention for—"Improvements in pumps." *Provisional protection only.*

COLLYER.
1st September 1859.

1997. ROBERT HANHAM COLLYER, of 8, Alpha Road, Regent's Park, in the County of Middlesex, Doctor of Medicine and Philosophy, for an invention for—"Improvements in preparing materials for the manufacture of paper." *Provisional protection only.*

WRIGHT.
2nd September 1859.

1998. PETER WRIGHT, of Dudley, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of anvils." *Letters Patent sealed.*

BERNARD.
2nd September 1859

1999. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture or production of boots and shoes, in the machinery, apparatus and means employed in such manufacture." *Letters Patent sealed*

WARREN.
2nd September 1859.

2000. FREDERICK WARREN, of Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in the machinery for cleaning tropical and other fibres. *Provisional protection NOT granted.*

BROWN.
BATHGATE.
2nd September 1859.

2001. WILLIAM BROWN the younger, of the Town and County of Selkirk, North Britain, Manufacturer, & SIMEON BATHGATE, of the same place, Engineer, for an invention for—"Improvements in machinery or apparatus for grinding or sharpening the card teeth of carding engines for carding fibrous materials." *Letters Patent sealed.*

WATSON.
2nd September 1859.

2002. JOHN KIPPEN WATSON, of Edinburgh, in the County of Mid-Lothian, Gentleman, for an invention for—"Improvements in gas meters and exhausters, washers and purifiers." *Provisional protection only.*

FEARN.
2nd September 1859.

2003. WILLIAM FEARN, of the British Pail Company, of Leeds, in the County of York, for an invention for—"An improved construction of buoys." *Letters Patent sealed.*

CLOUGH.
2nd September 1859.

2004. WILLIAM CLOUGH, of Wigan, in the County of Lancaster, Overlooker, for an invention for—"Certain improvements in machinery or apparatus for propelling vessels on water." *Provisional protection only.*

GOFF. STRANGMAN.
DAVIS. STRANGMAN.
2nd September 1859.

2005. STRANGMAN DAVIS GOFF, HENRY DAVIS, SAMUEL STRANGMAN, and EDWARD STRANGMAN, of the firm of Davis Strangman & Co., Waterford, Ireland, Brewers, for an invention for—"An improved method of and apparatus for drying malt, corn, and other articles." *Letters Patent sealed.*

TURNER.
LILLEY.
2nd September 1859.

2006. WILLIAM ALLEN TURNER, of the City of Manchester, in the County of Lancaster, Starch Manufacturer, and HENRY LOUIS LILLEY, of Stand Lane, in the said County, Manager, for an invention for—"Improvements in the manufacture of starch." *Letters Patent sealed.*

BUTTON.
2nd September 1859.

2007. EDWIN BUTTON, of Smith's Terrace, Chelsea, in the County of Middlesex, Engraver, for an invention for—"Improved apparatus for raising sunken vessels." *Provisional protection only.*

LEROUX.
2nd September 1859.

2008. JEAN FRANÇOIS FÉLIX LEROUX, of 29, Boulevart St. Martin, Paris, in the Empire of France, Merchant, for an invention for—"A new or improved apparatus to be employed for taking money on the counters." *Provisional protection only.*

HEDGCOCK.
2nd September 1859.

2009. THOMAS HEDGCOCK, of Ivy Cottage, Great Church Lane, Hammersmith, in the County of Middlesex, Master in the Royal Navy, for an invention for—"An improvement in quadrants." *Letters Patent sealed.*

SPURGIN.
2nd September 1859.

2010. JOHN SPURGIN, of Great Cumberland Street, in the County of Middlesex, M.D., for an invention for—"Improvements in ordnance and projectiles." *Provisional protection only.*

FRIOU.
3rd September 1859.

2011. JOSEPH FRIOU, of No. 74, Newman Street, Oxford Street, in the County of Middlesex, Chemist, for an invention for—"Detaching instantly the locomotives from railway carriages, and also for detaching instantly the harness from horses that run away when attached to any carriage." *Provisional protection only.*

WHEATSTONE.
3rd September 1859.

2012. WILLIAM WHEATSTONE, of 20, Conduit Street, Hanover Square, Middlesex, Musical Instrument Manufacturer, for an invention for—"Certain improvements in harmoniums." *Letters Patent sealed.*

SCHRAMM. 3rd September 1859.

2013. HENRY ROBERT LOUIS SCHRAMM, Engineer, residing at Breslau, Kingdom of Prussia, for an invention for—"A new process for pressing and separating simultaneously the fibres and pellicles contained in the constituant matters of the beet-root sugar, beer, grains, alcohol, potatoes, beets, and other similar substances." *Provisional protection only.*

SUFFIELD. 3rd September 1859.

2014. WILLIAM SUFFIELD, of Birmingham, in the County of Warwick, Dentist, for an invention for—"Improvements in the manufacture of artificial teeth, and in machinery to be employed in the said manufacture." *Provisional protection only.*

NEILSON. 3rd September 1859.

2015. WALTER NEILSON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam hammers." *Letters Patent sealed.*

DAVIES. 3rd September 1859.

2016. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in printing and in apparatus connected therewith."—*A communication from abroad by M. Aloïs Auer, Aulic Councillor and Director of the State Printing Office, Vienna.* *Letters Patent sealed.*

NIXON. 3rd September 1859.

2017. JAMES CHARLES NIXON, of the firm of Messrs. Danks and Nixon, of the Town and County of the Town of Nottingham, Furnishing Ironmongers and Domestic Range and Closet Manufacturers, for an invention for—"Improvements in kitchen ranges with combined steamer and hot closets for cooking, warming, drying, or other purposes." *Letters Patent sealed.*

PARSONS. 3rd September 1859.

2018. GEORGE PARSONS, of Martock, in the County of Somerset, Engineer, for an invention for—"Improvements in wheels." *Letters Patent sealed and specification filed by order.*

SCHIELE. 3rd September 1859.

2019. CHRISTIAN SCHIELE, of North Moor Foundry, Oldham, in the County of Lancaster, for an invention for—"Improvements in weighing machines." *Letters Patent sealed.*

SWAN. 3rd September 1859.

2020. HENRY SWAN, of 5, Bishopsgate Street Without, for an invention for—"Improvements in stereoscopes and stereoscopic pictures." *Provisional protection only.*

LAUTH. 3rd September 1859.

2021. BERNARD LAUTH, late of Pittsburgh, Pennsylvania, but now residing at Manchester, in the County of Lancaster, Mechanician, for an invention for—"Improvements in the manufacture of rollers or cylinders for calico printers, and of tubes of copper and brass, or mixtures of those metals." *Letters Patent sealed.*

BAKEWELL. 5th September 1859.

2022. FREDERICK COLLIER BAKEWELL, of No. 6, Haverstock Terrace, Hampstead, in the County of Middlesex, for an invention for—"Improvements in the manufacture of caustic alkalies."—*A communication from abroad by Henry Pemberton, of East Tarentum, U.S., North America.* *Letters Patent sealed.*

BUSH. 5th September 1859.

2023. WILLIAM BUSH, of Dulwich, in the County of Surrey, Chemist, for an invention for—"Manufacturing granulated seidleitz powder." *Provisional protection only.*

BARRE. BARRE. 5th September 1859.

2024. JEAN BAPTISTE HENRI HONORÉ RAYMOND BARRE, and JEAN BAPTISTE MARIE ERNEST BARRE, of Paris, 27, Rue de Penthièvre, Merchants, for an invention for—"Improvements in cutting out or engraving metals and their alloys." *Letters Patent sealed.*

FIELD. 5th September 1859.

2025. JOHN WILLIAM PARKER FIELD, of 233, High Holborn, in the County of Middlesex, Gun Manufacturer, for an invention for—"Improvements in breech loading fire arms." *Provisional protection only.*

EARLE. 5th September 1859.

2026. WILLIAM LOUIS EARLE, of Alfred Place, Bedford Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for promoting the combustion of smoke and gases arising from fuel." *Provisional protection only.*

TOMELL. 5th September 1859.

2027. VICTOR TOMELL, of 294, King's Road, Chelsea, in the County of Middlesex, for an invention for—"Improvements in the manufacture of yeast." *Provisional protection only.*

NEWTON.
5th September 1859.

2028. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in sewing machines."—*A communication from abroad by Henry Washington Hayden, of Waterbury, in the State of Connecticut, United States of America.*
Letters Patent sealed.

NEWTON.
5th September 1859.

2029. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in weighing machines."—*A communication from abroad by John Howe, junior, and Frank E. Howe, both of New York, and Francis Miles Strong, and Thomas Ross, both of Brandon, County of Rutland, and State of Vermont, United States.*
Letters Patent sealed.

LOWRY.
6th September 1859.

2030. GEORGE LOWRY, of Salford, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for heckling flax and other fibrous materials." *Letters Patent sealed.*

GELDARD.
6th September 1859.

2031. RICHARD KELLY GELDARD, of Plymouth, in the County of Devon, Pharmaceutical Chemist, for an invention for—"Improvements in the method of and apparatus for making pharmaceutical or other infusions." *Letters Patent sealed.*

SIEBER.
6th September 1859.

2032. JOHN JAMES SIEBER, of 5, Baring Street, New North Road, London, in the County of Middlesex, for an invention for—"Improvements in power looms."—*A communication from abroad by Henry Honegger, of Thiengen, Grand Duchy of Baden.* *Complete specification; Letters Patent sealed.*

MANCEAUX.
6th September 1859.

2033. FRANÇOIS JULES MANCEAUX, of Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in cartridges." *Letters Patent sealed.*

NEWTON.
6th September 1859.

2034. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved fabric applicable to the manufacture of hose or flexible pipes."—*A communication from abroad by Nehemiah Hunt, of Boston, in the United States of America.*
Letters Patent sealed.

STEWART.
6th September 1859.

2035. JAMES STEWART, of 69, Tottenham Court Road, in the County of Middlesex, for an invention for—"Improvements in piano forte actions."
Letters Patent sealed.

BLAKE.
6th September 1859.

2036. EDWARD BLAKE, of 61, Tachbrook Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in apparatus for and in treating china grass, rhea fibre, mudar, and other similar vegetable fibres."
Letters Patent sealed.

LYONS.
7th September 1859.

2037. JAMES JOHN LYONS, of London, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of sugar."
Provisional protection only.

DANN.
GOLDSCHMIDT.
7th September 1859.

2038. EDWARD ROBERT DANN, and EDWARD GOLDSCHMIDT, both of Nottingham, for an invention for—"Improvements in the manufacture of bonnet fronts or lappets." *Letters Patent sealed; no specification filed.*

LAWRENCE.
7th September 1859.

2039. GEORGE LAWRENCE, of York Road, Battersea, in the County of Surrey, Gentleman, for an invention for—"Improvements in the construction of wheeled vehicles." *Provisional protection only.*

JONES.
7th September 1859.

2040. HENRY JONES, of Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"Improvements in breech loading fire arms."
Letters Patent sealed.

VARILLAT.
7th September 1859.

2041. WILLIAM JEAN JULES VARILLAT, of Rouen, in the Empire of France, Manufacturer, for an invention for—"An apparatus indicating the level of water in steam caldrons or boilers." *Letters Patent sealed.*

JULLION.
PIRIE.
7th September 1859.

2042. JOHN LOUIS JULLION, and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, for an invention for—"The manufacture of gelatine and apparatus to be employed therein." *Letters Patent sealed.*

JOULE.
7th September 1859.

2043. JAMES PRESCOTT JOULE, of Manchester, in the County of Lancaster, Fellow of the Royal Society, for an invention for—"Improvements in apparatus for refrigerating and condensing steam or other vapours, which said improvements are applicable to refrigerating or heating liquids." *Letters Patent sealed.*

NEWTON.
7th September 1859.

2044. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of metallic strips or bands applicable to ladies' skirts."—*A communication from abroad by William Sparks Thomson, of New York, in the United States of America.* *Letters Patent sealed.*

NEWTON.
7th September 1859.

2045. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of ladies' hooped skirts."—*A communication from abroad by William Sparks Thomson, of New York, in the United States of America.* *Letters Patent sealed.*

CREED.
7th September 1859.

2046. EDMUND CREED, of Folkstone, in the County of Kent, for an invention for—"Improvements in the method of dressing millstones used for cleaning or hulling rice and other grains having a hull or husk." *Provisional protection NOT granted.*

HUGHES.
7th September 1859.

2047. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for forging metals."—*A communication from abroad by Ernest Dams, of 7, Rue des Moulins, Paris, in the Empire of France.* *Provisional protection only.*

ROTHWELL.
WATSON.
7th September 1859.

2048. WILLIAM ROTHWELL, of Carr House, Midgley, in the Parish of Halifax, and County of York, Mechanic, & THOMAS WATSON, of the same place, Overlooker, for an invention for—"Improvements in screw gill-boxes." *Letters Patent sealed.*

HOOMAN.
8th September 1859.

2049. THOMAS HOOMAN, of 490, Oxford Street, Middlesex, for an invention for—"An improved stock, cravat, or neck muffler or wrapper." *Provisional protection only.*

SMALL.
8th September 1859.

2050. THOMAS OSWALD SMALL, of the Borough and County of Newcastle-upon-Tyne, Artist, for an invention for—"Improvements in the stereoscope by means of tinted media and by the application of the pulley and lever or spring in changing the lights." *Letters Patent sealed.*

NICHOLSON.
8th September 1859.

2051. JOSEPH NICHOLSON, of Chaple House, Hensingham, Whitehaven, in the County of Cumberland, Agricultural Implement Maker, for an invention for—"Improvements in horse rakes." *Letters Patent sealed.*

JOHNSON.
8th September 1859.

2052. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in cocks and valves.—*A communication from abroad by Jean Baptiste Prudence Gire, of Paris, in the Empire of France.* *Letters Patent sealed.*

THORLEY.
8th September 1859.

2053. JOSEPH THORLEY, of Newgate Street, in the City of London, for an invention for—"An improved preparation of food for cattle and horses." *Provisional protection only.*

TANDY.
8th September 1859.

2054. JAMES TANDY, of Cavendish Grove, Wandsworth Road, in the County of Surrey, for an invention for—"Improvements in locomotive and other steam boilers." *Letters Patent sealed.*

ALLSOPP.
8th September 1859.

2055. THOMAS WEBSTER ALLSOPP, of Castle Donington, in the County of Leicester, Gas Lamp and Chandelier Manufacturer, Bell and Brass Founder, for an invention for—"Improvements in portable gas apparatus." *Letters Patent sealed.*

GOWLAND.
8th September 1859.

2056. GEORGE GOWLAND, of Liverpool, in the County of Lancashire, Chronometer and Nautical Instrument Maker, for an invention for—"Improvements in nautical and surveying instruments for measureing angles." *Letters Patent sealed.*

ROSCOE.
9th September 1859.

2057. WILLIAM ROSCOE, of Croxteth Hall, West Derby, in the County of Lancaster, Agent, for an invention for—"An improved agricultural implement or machine for distributing guano and other manures upon land." *Letters Patent sealed.*

JACKSON.
9th September 1859.

2058. MATTHEW MURRAY JACKSON, of Zurich, in the Republic of Switzerland, Engineer, for an invention for—"Improvements in generating steam for condensing engines." *Letters Patent sealed.*

ALLEYNE. 9th September 1859.

2059. JOHN GAY NEWTON ALLEYNE, of Butterley Iron Works, Alfreton, in the County of Derby, for an invention for—"Improvements in the manufacture of wrought iron beams." *Letters Patent sealed.*

WORSSAM. 9th September 1859.

2060. SAMUEL WORSSAM, of Chelsea, in the County of Middlesex, Engineer, for an invention for—"Improvements in sawing machinery." *Letters Patent sealed.*

CARPENTER. 9th September 1859.

2061. FREDERICK CARPENTER, of Porter Street, in the City of Westminster, Machinist, for an invention for—"An improved apparatus for cutting tobacco." *Provisional protection only.*

GEDGE. 9th September 1859.

2062. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, of No. 4, Wellington Street South, Strand, London, Patent Agents, for an invention for—"Improvements in the manufacture of nails."——*A communication from abroad by Bernard-Roelandt and Company, of Fontaine l'Evèque, Belgium (Nail Manufacturers).* *Letters Patent sealed.*

CORNELY. 9th September 1859.

2063. SIGISMUND CORNELY, of Lime Street, in the City of London, for an invention for—"An improvement in the permanent way of railways."—*A communication from abroad by Messrs. Lezaire and Pauwels, of Valenciennes, France.* *Letters Patent sealed.*

NEWTON. 9th September 1859.

2064. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the process of and machinery for manufacturing hat bodies."—*A communication from abroad by Andrew Campbell, of New York, in the United States of America.* *Letters Patent sealed.*

ROBINSON. 10th September 1859.

2065. HENRY OLIVER ROBINSON, of Westminster, in the County of Middlesex, Civil and Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for the manufacture of sugar." *Letters Patent sealed.*

SMITH. 10th September 1859.

2066. ANDREW SMITH, of Mauchline, in the County of Ayr, North Britain, Manufacturer of Scotch Fancy Wood Work, for an invention for—"Improvements in strengthening umbrella and walking stick handles and other articles or details wherein the cross or transverse grain of the wood or other material is subject to strains." *Provisional protection only.*

POLLOCK. 10th September 1859.

2067. JOSEPH POLLOCK, of Leeds, in the County of Yorkshire, Gentleman, for an invention for—"Improvements in the manufacture of beds, couches, and invalid or other carriages." *Provisional protection only.*

ROSS. 10th September 1859.

2068. WILLIAM ROSS, of Glasgow, in the County of Lanark, North Britain, Brassfounder, for an invention for—"Improved apparatus connected with the discharge of liquids." *Letters Patent sealed.*

MALLETT. 10th September 1859.

2069. EDWARD JONES MALLETT, of the City of New York, but now Commercial Agent of the United States, at Florence, in Italy, for an invention for—"Improvements in axles." *Letters Patent sealed.*

PERRY. 10th September 1859.

2070. THOMAS JOSEPH PERRY, of Bilston, in the County of Stafford, Engineer and Ironfounder, for an invention for—"An improved construction of hot air oven." *Provisional protection only.*

GUTCH. 12th September 1859.

2071. THOMAS GREGORY GUTCH, of Southampton, in the County of Hants, Stationer and Printer, for an invention for—"The improvement of copying books for order books and letter books and so forth as the improvement can be applied." *Provisional protection only.*

MENNONS. 12th September 1859.

2072. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved arrangement of piston packing principally applicable to hydraulic apparatus."—*A communication from Casimir and Celestin Dabbène, residing at Verduno, Sardinian States.* *Complete specification; Letters Patent sealed.*

MENNONS. 12th September 1859.

2073. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improvements in the construction of hydraulic pumps."—*A communication from Louis Laurent Bequemie, residing in Paris.* *Complete specification; Letters Patent sealed.*

RIPLEY. 12th September 1859.	2074. HENRY WILLIAM RIPLEY, of Bradford, in the County of York, Dyer, for an invention for—"Improvements in finishing dyed piece goods." *Provisional protection only.*
HEINDRYCKX. 12th September 1859.	2075. FLORIDE HEINDRYCKX, of Brussels, in the Kingdom of Belgium, Engineer, for an invention for—"Improvements applicable to railways or tramways." *Letters Patent sealed.*
EASON. 12th September 1859.	2076. JOHN EASON, of Oxford Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of buff or lush and other oiled leathers." *Provisional protection only.*
VERSMANN. OPPENHEIM. 12th September 1859.	2077. FREDERICK VERSMANN, and ALPHONS OPPENHEIM, of Bury Court, St. Mary Axe, in the City of London, Analytical Chemists, for an invention for—"Improvements in the treatment of various substances so as to render the same non inflammable." *Letters Patent sealed.*
MORRISON. 12th September 1859.	2078. WILLIAM HENRY MORRISON, of Nottingham, Manufacturer, for an invention for—"Improvements in the manufacture of bonnet and cap fronts, and in the means or apparatus employed therein." *Letters Patent sealed.*
GISBORNE. MAGNUS. 12th September 1859.	2079. FREDERIC NEWTON GISBORNE, of No. 3, Adelaide Place, in the City of London, Engineer, and LAZARUS SIMON MAGNUS, of the same place, Merchant, for an invention for—"Improvements in telegraph cables." *Provisional protection only.*
MASON. 12th September 1859.	2030. JOSIAH MASON, of Birmingham, for an invention for—"An improvement in boxes or cases and cards to contain or hold pens." *Letters Patent sealed.*
COLLINS. 12th September 1859.	2081. HENRY GEORGE COLLINS, of McLean's Buildings, New Street Square, in the City of London, for an invention for—"Improvements in producing printing surfaces on stone, metal, and other materials capable of being employed in printing in the manner of lithographic stones, also in the production of printing plates and surface printing blocks, and in transfer inks." *Letters Patent sealed.*
ELLIOTT. 12th September 1859.	2082. WILLIAM ELLIOTT, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of African or Guinea rods." *Provisional protection only.*
SEITHEN. 13th September 1859.	2083. ANTON BRUNO SEITHEN, of 6, Alpha Place, Caledonian Road, London, in the County of Middlesex, for an invention for—"Improvements in apparatus for shaping cork stoppers, and in the manufacture of life buoys and buffers of cork." *Letters Patent sealed.*
ADAMS. 13th September 1859.	2084. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*
LEVI. 13th September 1859.	2085. GEORGE MONTEFIORE LEVI, of Val Benoit, Liege, in Belgium, Civil Engineer, for an invention for—"Improvements in washing and separating ores and substances of different specific gravities, and in apparatus for that purpose." *Letters Patent sealed; no specification filed.*
LEBOURGEOIS. 13th September 1859.	2086. ERNEST AUGUSTE FREDERIC LEBOURGEOIS, of Suresnes, France, Mechanician, for an invention for—"An improved machine for providing with pin points the blocks employed for surface printing on calico, paper, or other similar materials." *Letters Patent sealed.*
GRAINGER. 13th September 1859.	2087. JOHN GRAINGER, of Birmingham, in the County of Warwick, Gun Maker, for an invention for—"Improvements in breech loading fire arms and in moulds for making projectiles." *Provisional protection only.*
FREELAND. 13th September 1859.	2088. ALEXANDER BANKIER FREELAND, of Camden Road Villas, in the County of Middlesex, for an invention for—"Improvements in preparing hay and clover for food for horses and other animals." *Letters Patent sealed.*
NEWTON. 13th September 1859.	2089. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for drying paper and other fabrics."—*A communication from abroad by Edward L. Perkins, of Roxbury, in the County of Norfolk, and State of Massachusetts, United States of America.* *Letters Patent sealed.*
HECHT. 14th September 1859.	2090. SALOMON HECHT, of 36, Gresham Street, London, for an invention for—"A new mode of advertising." *Provisional protection only.*

GUMPEL. 14th September 1859.

2091. CHARLES GODFREY GUMPEL, of 2, Gordon Cottages, Holland Road, Brixton, in the County of Surry, for an invention for—"Improvements in the application of motive power to the propelling of vessels." *Letters Patent sealed.*

MARRITT. 14th September 1859.

2092. JOHN MARRITT, of Sutton, in the County of York, for an invention for—"An improved double-action rotating harrow." *Letters Patent sealed.*

KENNEDY. 14th September 1859.

2093. JOHN PITT KENNEDY, of Torrington Square, in the County of Middlesex, Lieutenant Colonel and Engineer, for an invention for—"Improvements in steam boilers." *Provisional protection only.*

RAPIER. 14th September 1859.

2094. RICHARD CHRISTOPHER RAPIER, of Newcastle-upon-Tyne, in the County of Northumberland, Engineer, for an invention for—"Improvements in the construction of steam boilers." *Provisional protection only.*

BESLAY. 14th September 1859.

2095. CHARLES BESLAY, of Rue St. Sebastian, Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in preparing and obtaining printing surfaces with designs sunk as also in relief." *Letters Patent sealed.*

DEFRIES. 14th September 1859.

2096. NATHAN DEFRIES, of No. 5, Fitzroy Square, in the County of Middlesex, Gas Engineer, for an invention for—"Improvements in gas meters." *Letters Patent sealed.*

SLOCUM. 14th September 1859.

2097. JOHN STANTON SLOCUM, of Providence, Rhode Island, United States of America, for an invention for—"Improvements in projectiles suitable for ordnance." *—A communication from abroad by Charles Tillinghast James, of Providence, Rhode Island aforesaid.* *Letters Patent sealed.*

APPLEGATH. 14th September 1859.

2098. AUGUSTUS APPLEGATH, of Dartford, in the County of Kent, Engineer, for an invention for—"Improvements in machinery for printing and for cutting printed paper into sheets." *Letters Patent sealed.*

ROBINSON. 15th September 1859.

2099. JOHN ROBINSON, of Sutton, near Hull, Agricultural Implement Maker, for an invention for—"An improved agricultural implement." *Letters Patent sealed.*

ADDENBROOKE. 15th September 1859.

2100. JOSEPH ADDENBROOKE, of the City of London, Manufacturer, for an invention for—"An apparatus for wrapping, folding, or packing up goods or parcels." *Letters Patent sealed.*

BRIÈRE. 15th September 1859.

2101. JULIEN BRIÈRE, of Brussels, in the Kingdom of Belgium, Mechanic, for an invention for Improvements in railway breaks." *Letters Patent sealed.*

WOOD. 15th September 1859.

2102. JOSEPH THOMAS WOOD, of the Strand, in the City of Westminster, Embosser and Publisher, for an invention for—"Improvements in printing and embossing dies." *Provisional protection only.*

WINTER. 15th September 1859.

2103. HENRY WINTER, of Albion Place, Hackney, in the County of Middlesex, for an invention for—"A machine or apparatus for lifting and weighing loaded sacks and also merchandize." *Letters Patent sealed.*

CLARKE. 15th September 1859.

2104. JOHN PRETTY CLARKE, of King Street Mills, Leicester, for an invention for—"Improvements in the manufacture of spools or reels for the winding on of cotton, linen, thread, silk, or other fibrous materials." *Letters Patent sealed.*

HADWEN. 16th September 1859.

2105. JOHN WILSON HADWEN, of Kebroyd Mills, in the Parish of Halifax, and West Riding of the County of York, Cotton Spinner, for an invention for "An improvement or improvements in apparatus or machinery used for drawing fibrous substances or materials in any of the processes or machines for preparing to be spun or for spinning the same." *Letters Patent sealed.*

BOTTOMLEY. MARTIN. 16th September 1859.

2106. JAMES BOTTOMLEY, of North Bierley, near Bradford, in the County of York, Manufacturer, and ALEXANDER HENNAH MARTIN, of the same place, Mechanic, for an invention for—"Improvements in means or apparatus employed in weaving." *Letters Patent sealed.*

HECKFORD. 16th September 1859.

2107. NATHANIEL HECKFORD, of Forest Gate, in the County of Essex, Gentleman, for an invention for—"A method of purifying the Thames and other rivers and of treating night soil." *Provisional protection only.*

LAUTH. 16th September 1859.

2108. BERNARD LAUTH, late of Pittsburg, Pennsylvania, but now of Manchester, in the County of Lancaster, Mechanician, for an invention for—"Improvements in the manufacture of rails for railways." *Letters Patent sealed.*

NEWTON. 16th September 1859.

2109. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for forming hat bodies."—*A communication from abroad by H. A. Burr, of New York.* *Letters Patent sealed.*

RICHARDSON. 16th September 1859.

2110. THOMAS RICHARDSON, of New Bridge Street, Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of sulphuric acid, and in applying the heat generated in the process." *Letters Patent sealed.*

JACKSON. 16th September 1859.

2111. HENRY JACKSON, of Oak Works, Oak Lane, Limehouse, for an invention for—"Improvements in fire bars." *Letters Patent sealed.*

BECK. 16th September 1859.

2112. JOSEPH BECK, of the firm of Smith, Beck and Beck, of Coleman Street, in the City of London, for an invention for—"Improvements in stereoscopes." *Letters Patent sealed.*

LUIS. 17th September 1859.

2113. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A new brick and tile making machine."—*A communication from abroad by Alexis Maigné, of Paris, in the Empire of France.* *Letters Patent sealed.*

LUIS. 17th September 1859.

2114. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in mechanical hammers."—*A communication from abroad by Jean Schmerber, of Haut Rhin, in the Empire of France.* *Letters Patent sealed.*

LUIS. 17th September 1859.

2115. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"Further improvements in brakes for railway carriages."—*A communication from abroad by Laurent Rigolier, of Rhône, in the Empire of France.* *Letters Patent sealed.*

LUIS. 17th September 1859.

2116. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"An automaton bell for the prevention of collisions at sea."—*A communication from abroad by Gallois Foucault, of Saint Martin, in the Empire of France.* *Letters Patent sealed.*

LUIS. 17th September 1859.

2117. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"A slip bridle for stopping runaway horses."—*A communication from abroad by Cesar Bourdenet-Bouchot, of Paris, in the Empire of France.* *Letters Patent sealed.*

LUIS. 17th September 1859.

2118. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in cooling apparatus for liquids, especially beer."—*A communication from abroad by Jean Louis Baudelot, Paris, in the Empire of France.* *Letters Patent sealed.*

LUIS. 17th September 1859.

2119. JOZÉ LUIS, of the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, Patent Agent, for an invention for—"An improved disc and lantern signal with double repeaters."—*A communication from abroad by Jules Rousseau, of Paris, in the Empire of France.* *Letters Patent sealed.*

KERR. 17th September 1859.

2120. JOHN JAMES KERR, of Twickenham, in the County of Middlesex, for an invention for—"Improvements in the manufacture of cartridges containing shot." *Provisional protection only.*

RODIER. 17th September 1859.

2121. SAMUEL NEWMAN RODIER, of Prospect Cottage, Strand-on-the-Green, Chiswick, in the County of Middlesex, for an invention for—"Improvements in the regulation of gas to burners which he calls 'Rodier's regulating gas valve.'" *Letters Patent sealed.*

ELLIOTT. 17th September 1859.

2122. THOMAS ELLIOTT, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in lubricators especially applicable to steam engines." *Letters Patent sealed.*

NORMAN.
17th September 1859.

2123. ABRAHAM JOHN NORMAN, of Gore Lodge, Turnham Green, in the Parish of Chiswick, Co. of Middlesex, for an invention for—"Paving roads and surfaces." *Provisional protection only.*

TAYLOR.
19th September 1859.

2124. EDWARD HENRY TAYLOR, of Saltney, in the City of Chester, Wagon Builder, for an invention for—"Improvements in the mode of securing the bolts. in fish joint and other fastenings for rails on railways." *Letters Patent sealed.*

GISBORNE.
19th September 1859.

2125. FREDERIC NEWTON GISBORNE, of No. 3, Adelaide Place, London Bridge, in the City of London, Engineer, for an invention for—"Paying out submarine telegraph cables." *Provisional protection only.*

HAWKINS.
HAWKINS.
19th September 1859.

2126. JOHN HAWKINS, of Lisle Street, London, in the County of Middlesex, and of Walsall, in the County of Stafford, Bit, Spur and Stirrup Manufacturer, and CHARLES HAWKINS, of Walsall, aforesaid, Manager of the Works of the said John Hawkins, for an invention for—"Certain improvements in fly presses to be worked by steam, water, or other power." *Letters Patent sealed.*

ROBERTSON.
TWEEDDALE.
19th September 1859.

2127. WILLIAM ROBERTSON, and JOHN TWEEDDALE, both of Johnstone, in the County of Renfrew, North Britain, Engineers, for an invention for—"Improvements in hydrostatic jacks or lifting apparatus."—*A communication from abroad by John Robertson of Brooklyn, New York, United States."* *Provisional protection only.*

McCALL.
19th September 1859.

2128. ROBERT MCCALL, of the City of Dublin, Civil Engineer, for an invention for—"Improvements in obtaining precipitates of copper, parts of which improvements are applicable to the production of yellow ochre." *Provisional protection only.*

WRIGHT.
19th September 1859.

2129. JAMES WRIGHT, of 42, Bridge Street, Blackfriars, City of London, Civil Engineer, for an invention for—"Improvements in the construction of carriages, coaches, omnibuses, and other such like conveyances."—*A communication from abroad by Rene Sauvage De Saint Marc, of Lyons, in the Empire of France.* *Letters Patent sealed.*

EASTWOOD.
19th September 1859.

2130. THOMAS CHARLES EASTWOOD, of Bradford, in the County of York, Wool Comber, for an invention for —"Improvements in means or apparatus for preparing and combing wool, cotton and other fibres." *Letters Patent sealed.*

FAIRBAIRN.
19th September 1859.

2131. PETER FAIRBAIRN, of Leeds, in the County of York, Knight, for an invention for—"Improved machinery for finishing the teeth of spur and other gearing." *Letters Patent sealed.*

WARLOMONT.
19th September 1859.

2132. HUBERT JOSEPH WARLOMONT, Manager of the Vieille Montagne Zinc Works, at Liege, in the Kingdom of Belgium, for an invention for—"Improvements in apparatus to be employed in the manufacture of zinc." *Letters Patent sealed.*

BROOMAN.
19th September 1859.

2133. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in elevators or lifts for hotels, warehouses and other structures."—*A communication from abroad by Otis Tufts, of Boston, United States.* *Letters Patent sealed.*

CLARK.
19th September 1859.

2134. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Certain improvements in electro-magnetic telegraphs."—*A communication from abroad by Mr. Leverett Bradley, of Folsom, City in the County of Sacramento, and State of California, Doctor of Medicine.* *Letters Patent sealed.*

ENGLER.
KRAUSS.
19th September 1859.

2135. LOUIS ENGLER, and ERNEST FRÉDÉRIC KRAUSS, Manufacturers, of 29, Boulevart St. Martin, Paris, in the Empire of France, for an invention for—"A new or improved system of insulators for electric wires." *Letters Patent sealed.*

COURT.
19th September 1859.

2136. JOHN COURT, of Brompton Row, in the County of Middlesex, for an invention for—"Improvements applicable to gas, and other lamps and lights, and also gas stoves, for effecting more complete combustion therein." *Letters Patent sealed.*

MANBRÉ.
20th September 1859.

2137. ALEXANDRE MANBRÉ, of No. 10, Rathbone Place, Oxford Street, London in the County of Middlesex, Brewer, for an invention for—"The manufacture of coloring matter for coloring spirits, beers, vinegar, and other liquids and beverages." *Provisional protection only.*

MANBRÉ. 20th September 1859.

2138 ALEXANDRE MANBRÉ, of No. 10, Rathbone Place, Oxford Street, London, in the County of Middlesex, Brewer, for an invention for—"An improved method of extracting and purifying sugar called glucose and 'syrup de fecule' from potatoes, or fecula, or starch, or dextrine." *Letters Patent sealed.*

WEILD. 20th September 1859.

2139. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in fluted rollers used in machines for preparing, spinning, and doubling cotton, wool, flax, silk, and other fibrous materials, and in the manufacture of such rollers." *Letters Patent sealed.*

MCILWRAITH. 20th September 1859.

2140. WILLIAM MCILWRAITH, of Glasgow, in the County of Lanark, North Britain, Weaving Foreman, for an invention for—"Improvements in weaving." *Letters Patent sealed.*

BEADS. 20th September 1859.

2141. JOHN BEADS, of Pendleton, near Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for spinning cotton, wool, or other fibrous substances, part of which improvements is applicable to other purposes." *Provisional protection only.*

LAMB. 20th September 1859.

2142. ANDREW LAMB, of Southampton, in the County of Hants, Engineer, for an invention for—"An improved method of heating the feed water for boilers." *Letters Patent sealed.*

NEWTON. 20th September 1859.

2143. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in projectiles."—*A communication from abroad by A. B. Stoughton, of Washington, in the United States of America.* *Provisional protection only.*

MATTHEWS. 20th September 1859.

2144. LEONARD MATTHEWS, of No. 28, Fletcher Gate, in the Town and County of the Town of Nottingham, Lace Manufacturer, for an invention for—"Improvements in machinery to be employed in introducing plain or coloured wire upon lace or other fabrics for the purpose of ornamenting the same, or for running on and stiffening caps, cap-borders, or for other similar purposes." *Provisional protection only.*

COLLIER. 20th September 1859.

2145. EDWARD COLLIER, of Myddleton Street, Clerkenwell, in the County of Middlesex, Surgical Instrument Maker, for an invention for—"Improvements in ear dilators." *Provisional protection only.*

GEYELIN. 21st September 1859.

2146. GEORGE KENNEDY GEYELIN, Civil Engineer, of 462, Oxford Street, County of Middlesex, for an invention for—"Improvements in machinery for making solid, hollow, and perforated bricks, also tiles, drain and socket pipes." *Provisional protection only.*

CORLESS. 21st September 1859.

2147. HENRY CORLESS, of West Derby, in the County of Lancaster, Gentleman, for an invention for—"Improvements in apparatus for washing, wringing, and mangling." *Provisional protection only.*

JOWETT. 21st September 1859.

2148. HENRY ALFRED JOWETT, of Sawley, in the County of Derby, Civil Engineer, for an invention for—"Improvements in breaks for railway and other carriages, with means of communication between guard or conductor & driver." *Letters Patent sealed and specification filed by order.*

BLAIR. 21st September 1859.

2149. JOHN BLAIR, of Manchester, in the County of Lancaster, Cotton Dealer, for an invention for—"Certain improvements in the treatment of yarns during the operation of spinning, which treatment is also applicable in 'roving,' 'slubbing,' or 'doubling' machines." *Letters Patent sealed.*

ROBINSON. 21st September 1859.

2150. GEORGE DANNETT ROBINSON, 15, Church Street, Islington, London, for an invention for—"Improvements in apparatus for regulating the pressure of gas and other fluids." *Letters Patent sealed.*

NEWTON. 21st September 1859.

2151. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of and apparatus for condensing the waste steam of marine engines."—*A communication from abroad by Messrs. Maseline & Co., of Paris, in the Empire of France.* *Letters Patent sealed.*

DAVISON.
21st September 1859.

2152. ROBERT DAVISON, of London Street, in the City of London, Civil Engineer, for an invention for—"Improvements in the construction of holders for containing liquid or air and other aeriform fluids, especially adapted for use in refrigerators." *Letters Patent sealed.*

HARRISON.
21st September 1859.

2153. JOSEPH HARRISON, of Glossop, in the County of Derby, Overlooker of Spinners, for an invention for—"An improvement in spinning mules, applicable also to the machines called twiners." *Letters Patent sealed.*

DIMOCK.
BAKER.
21st September 1859.

2154. EDWIN BRUCE DIMOCK, and JULIUS HALSEY BAKER, of Ware House Point, in the County of Hartford, and State of Connecticut, United States of America, for an invention for—"A new and useful improvement in mechanism or apparatus for drying woolen or other cloths."—*A communication from Charles F. Bennett, residing at Warehouse Point, in the County of Hartford, and State of Connecticut.*
Complete specification; Letters Patent sealed.

FIELD.
22nd September 1859.

2155. THOMAS FIELD, Stay Cleaner, of No. 5, Rose Gardens, Hammersmith, in the County of Middlesex, for an invention for—"A new means and system for cleaning, ironing, pressing, and glazing women's stays, corsets, supporting bands, men's jackets, coats, trousers, and waistcoats, chintzs, laundry work (that is to say, goods and articles generally washed by laundresses), window blinds, and textile fabrics generally." *Letters Patent sealed.*

MOWBRAY.
COATMAN.
22nd September 1859.

2156. RICHARD BUTLER MOWBRAY, and THOMAS COATMAN, of the City of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in machinery or apparatus connected with and applicable to steam boilers and heating apparatus." *Provisional protection only.*

DALES.
22nd September 1859.

2157. JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the City of London, for an invention for—"Improvements in purifying sewage and other impure waters, and in separating therefrom materials suitable for use as manure, and also the preparation of a substance to be employed for such purposes."
Letters Patent sealed.

JONES.
22nd September 1859.

2158. EDWARD JONES, of the Russell's Hall Iron Works, Dudley, in the County of Worcester, Furnace Manager, for an invention for—"An improvement or improvements in the manufacture of coke in open coke fires or heaps."
Letters Patent sealed.

CASTELAIN.
VASSEROT.
23rd September 1859.

2159. LÉON CASTELAIN, of 53, Newman Street, Oxford Street, and CHARLES FRÉDERIC VASSEROT, of 45, Essex Street, Strand, both in the County of Middlesex, for an invention for—"A novel application of a plant to the manufacture of pulp for paper and millboard, and in the method of treating the same when so applied." *Provisional protection only.*

PARRY.
23rd September 1859.

2160. CHARLES JAMES PARRY, of the firm of Parry and Briddon, of the City of Manchester, in the County of Lancaster, Shirt-front and Collar Manufacturers, for an invention for—"Improvements in certain apparatus applicable to sewing machines." *Letters Patent sealed.*

PARRY.
23rd September 1859.

2161. CHARLES JAMES PARRY, of the firm of Parry and Briddon, of the City of Manchester, in the County of Lancaster, Shirt Front and Collar Manufacturers, for an invention for—"Improvements in diamond shirt fronts."
Provisional protection only.

BENTLEY.
23rd September 1859.

2162. THOMAS BENTLEY, of Margate, in the County of Kent, Ironmonger, for an invention for—"Improvements in agricultural implements for gathering and destroying weeds and stubble." *Provisional protection only.*

BOURCART.
23rd September 1859.

2163. JEAN JACQUES BOURCART, of Guebwiller, Haut Rhin, France, but now residing at Manchester, in the County of Lancaster, Spinner, for an invention for—"Improvements in machinery or apparatus for opening, cleaning, carding, and drawing cotton and other fibrous materials." *Letters Patent sealed.*

JAMES.
23rd September 1859.

2164. ROBERT JAMES, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for covering crinoline, applicable also to braiding fancy patterns for other articles."
Provisional protection only.

NORMANDY. 24th September 1859.

2165. ALPHONSE RENÉ LE MIRE NORMANDY, of 67, Judd Street, Brunswick Square, London, Analytical Chemist, for an invention for—"Improvements in the application of steam for cooking food." *Letters Patent sealed.*

GEDGE. 24th September 1859.

2166. JOHN GEDGE, of the firm of John Gedge and Son, of 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agents, for an invention for—"An improved stamp holder and cutter."—*A communication from abroad by Denis Nefflier and Pierre Blandin, both residing at Dijon, in the Empire of France.* *Letters Patent sealed.*

LAMBERT. 24th September 1859.

2167. CHARLES LAMBERT, of Sunk Island, in the East Riding of the County of York, Farmer, for an invention for—"Improvements in machines or apparatuses for cutting and pulping food for cattle and for other like purposes." *Letters Patent sealed.*

COEY. 24th September 1859.

2168. JAMES COEY, of Liverpool, in the County of Lancaster, Provision Merchant, for an invention for—"Improvements in or applicable to packages for containing butter, lard, and other articles." *Letters Patent sealed.*

ROBINSON. 24th September 1859.

2169. THOMAS ROBINSON, of St. Helen's, Lancashire, Iron Founder, for an invention for—"Improvements in steam hammers." *Letters Patent sealed.*

DAFT. 24th September 1859.

2170. THOMAS BARNABAS DAFT, of Tottenham, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in coating metal conductors suitable for electric telegraphs." *Letters Patent sealed.*

POPE. 24th September 1859.

2171. JOSEPH TUNNICLIFF POPE, of Burslem, in the County of Stafford, Potter, for an invention for—"Improvements in the manufacture of marbles." *Provisional protection only.*

TODD. 24th September 1859.

2172. JOHN TODD, of Kent Iron Works, Greenwich, in the County of Kent, Engineer, for an invention for—"Improvements applicable to screw propellers in the propulsion of vessels." *Provisional protection only.*

OPIE. 24th September 1859.

2173. JOSEPH OPIE, of Tremar, in the County of Cornwall, Fuse Manufacturer, for an invention for—"Improved instruments or apparatus for charging holes in blasting operations, parts of which are also applicable for like purposes." *Provisional protection only.*

FERNIHOUGH. 26th September 1859.

2174. JAMES FERNIHOUGH, of Dukinfield, in the County of Chester, Engineer, for an invention for—"Improvements in pistons, plungers, and buckets." *Letters Patent sealed.*

SIEVIER. 26th September 1859.

2175. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, but now residing in the City of Hamburgh, for an invention for—"Improvements in the means of creating a draught so as to remove the gases which may be produced by combustion, or from places where gases may be generated, where they may be detrimental to health." *Provisional protection only.*

KAY. 26th September 1859.

2176. RICHARD KAY, of Busby, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in preparing and bleaching textile fabrics and materials, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

WHITE. 26th September 1859.

2177. DAVID WHITE, of 18, High Holborn, in the County of Middlesex, Gas Fitter and Engineer, for an invention for—"Increasing the illuminating and heating powers of gases and regulating the flow of gases, and improvement in the material for gas meters, and improvement in glass and cylinder holders." *Letters Patent sealed.*

ADDENBROOKE. 26th September 1859.

2178. GEORGE ADDENBROOKE, of Greenhill, Wimborne, Wolverhampton, for an invention for—"Improvements in raising and lowering boats and other vessels from one water level to another applicable in inland navigation." *Provisional protection only.*

VILLET-COLLIGNON. GEORGE. 26th September 1859.

2179. JOSEPH VILLET-COLLIGNON, Literary Man, and LOUIS GEORGE, Typographer, of Paris, 29, Boulevart St. Martin, in the Empire of France, for an invention for—"Improvements in the typography." *Letters Patent sealed.*

SIMPSON.
27th September 1859.

2180. FREDERICK SIMPSON, of City Terrace, St. Luke's, in the County of Middlesex, for an invention for—"An improved method of fastening or securing envelopes and other like receptacles, also for affixing postage stamps, receipt stamps, and all other similar lables requiring adhesive properties."

Provisional protection only.

AIREY.
CLAYTON.
27th September 1859.

2181. WILLIAM AIREY, of Brighouse, in the County of York, and JAMES CLAYTON, of Golcar, in the same County, for an invention for—"Improvements in machinery or apparatus for preparing silk, wool, cotton, flax, or other fibrous substances for spinning." *Letters Patent sealed.*

COALES.
27th September 1859.

2182. ROBERT COALES, of 53, Chancery Lane, in the County of Middlesex, for an invention for—"An improved preparation or preparations for promoting the growth and otherwise improving the hair, and for the application of a certain material for like purposes." *Provisional protection only.*

BIRTWELL.
MARSHALL.
27th September 1859.

2183. THOMAS BIRTWELL, and RICHARD MARSHALL, both of Padiham, in the County of Lancaster, Farmers, for an invention for—"An improved arrangement of apparatus to facilitate the putting on of boots to the feet."

Provisional protection only.

COWPER.
27th September 1859.

2184. CHARLES COWPER, of No. 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in mixing or combining and deodorizing oil made from gas tar and other oils."—*A communication from abroad by George Wagstaff Yapp, residing at Paris, in France.*

Letters Patent sealed.

PARFITT.
27th September 1859.

2185. JOHN SPALDING PARFITT, of Paris, 60, Boulevart de Strasbourg, Practical Engineer, for an invention for—"An improved machine for heading bolts, rivets, screws, and other similar articles requiring to be headen whilst hot."

Letters Patent sealed.

PIEDNUE.
27th September 1859.

2186. JOHN RAYMOND PIEDNUE, of Royal Mint Refinery, Royal Mint Street, in the County of Middlesex, Assayer, for an invention for—"An improved apparatus for transmitting motive power."—*A communication from Alphonse Cheron, Engineer, and Desiré Honoré Sole, Professor, Persons resident at Paris, France.*

Provisional protection only.

BEARDS.
27th September 1859.

2187. THOMAS BEARDS, of Stowe, in the County of Bucks, for an invention for —"Improvements in ploughing and cultivating land by steam power, and in machinery used for such purposes." *Letters Patent sealed.*

LEJEUNE-CHAUMONT.
27th September 1859.

2188. PASCHAL J. LEJEUNE-CHAUMONT, of Faubourg Vivegnies, 138, Liège, for an invention for—"Improvements in fire-arms and ordnance, and in projectiles and cartridges to be used therewith. *Letters Patent sealed.*

MALTBY.
28th September 1859.

2189. WILLIAM MALTBY, of De-Crespigny Park, Camberwell, in the County of Surrey, Gentleman, for an invention for—"An improved mode of producing starch-gum." *Provisional protection only.*

COLLINS.
28th September 1859.

2190. WILLIAM COLLINS, of Salford, in the Parish of Manchester, and County of Lancaster, Engineer and Brass Founder, for an invention for—"Improvements in stand pipes for hydrants." *Provisional protection only.*

DUTTON.
28th September 1859.

2191. EDWARD KENWORTHY DUTTON, of Sale, in the County of Chester, Mechanical Draughtsman, for an invention for—"Certain improvements in "Governors" particularly adapted to steam engines." *Provisional protection only.*

DORNING.
28th September 1859.

2192. WILLIAM JOHN DORNING, of Manchester, in the County of Lancaster, Engineer and Manager for Messrs. Edward T. Bellhouse & Co., of the same place, for an invention for—"Certain improvements in traction engines."

Provisional protection only.

SUTTON.
28th September 1859.

2193. THOMAS SUTTON, of St. Brelade, in the Island of Jersey, Gentleman, for an invention for—"Improvements in the construction of apparatus for taking photographic pictures consisting of & entitled 'An improved panoramic lens for taking photographic pictures.'" *Letters Patent sealed.*

CATHELS.
SPLATT.
28th September 1859.

2194. EDMUND SMALL CATHELS, and SAMUEL SPLATT, both of Dover, in the County of Kent, for an invention for—"Improvements in gas meters."

Letters Patent sealed.

PHILLIPS.
28th September 1859.

2195. WILLIAM HENRY PHILLIPS, of Nunhead, Peckham, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus for generating and regulating heat applicable to culinary and other purposes."
Letters Patent sealed.

STANFORD.
28th September 1859.

2196. JOHN FORDHAM STANFORD, of No. 7, Denbigh Place, Pimlico, in the Parish of St. George, Hanover Square, in the County of Middlesex, Architect, for an invention for—"An improved apparatus for giving warmth to the lower extremities and members of invalids and others when travelling, or in churches, chapels, theatres, rooms, carriages and other similar places, and on ship-board, and also for airing carriages." *Letters Patent sealed.*

EVANS.
HUXLEY.
28th September 1859.

2197. GEORGE EVANS, and EDWARD HUXLEY, both of No. 12, Old Cavendish Street, Cavendish Square, in the County of Middlesex,, for an invention for—"Improvements in the construction of hernial trusses and pads adapted to surgical purposes generally." *Provisional protection only.*

SIMPSON.
28th September 1859.

2198. EDWARD THORNHILL SIMPSON, of Walton, near Wakefield, in the County of York, for an invention for—"Improvements in apparatus for condensing distilled fatty matters." *Letters Patent sealed; no specification filed.*

LAVATER.
28th September 1859.

2199. MANUEL LEOPOLD JONAS LAVATER, of the Strand, in the County of Middlesex, India-rubber Manufacturer, for an invention for—"Improvements in apparatus known as injection bottles, and in pneumatic discs used in apparatus for adhering to glass and other inpermeable substances." *Letters Patent sealed.*

ROBERTSON.
28th September 1859.

2200. PATRICK ROBERTSON, of Sun Court, Cornhill, in the City of London, for an invention for—"Improvements in the manufacture of manure."
Letters Patent sealed.

STEWART.
28th September 1859.

2201. DAVID STEWART, of Newcastle-on-Tyne, in the County of Northumberland, and of Bombay, in the East Indies, Engineer, for an invention for—"Improvements in presses used for pressing goods." *Letters Patent sealed.*

STEVENS.
29th September 1859.

2202. CHARLES STEVENS, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"An improved steam dredging boat."—*A communication from abroad by Yollet, Babin & Gâche, ainé, of Paris, in the Empire of France.* *Letters Patent sealed.*

PAGE.
LUNGLEY.
29th September 1859.

2203. GEORGE GORDON PAGE, of Whitehall, in the County of Middlesex, Civil Engineer, and CHARLES LUNGLEY, of Deptford, in the County of Kent, Ship Builder, for an invention for—"Improvements in gangways or step ladders applicable to floating bodies and other useful purposes." *Letters Patent sealed.*

ALLAN.
29th September 1859.

2204. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in applying electricity for telegraphic purposes and in apparatus employed therein." *Letters Patent sealed.*

JOHNSON.
29th September 1859.

2205. WILLIAM JOHNSON, of the firm of Johnson and Booth, of Horse Shoe Court, in the City of London, Manufacturers, for an invention for—"An improvement in purses." *Letters Patent sealed.*

BENTALL.
29th September 1859.

2206. EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the County of Essex, Ironfounder, for an invention for—"Improvements in screw presses."
Letters Patent sealed.

DUPLOMB.
29th September 1859.

2207. CLEMENT DUPLOMB, of Rue de Rivoli, 112, Paris, France, Merchant, for an invention for—"Improvements in presses for pressing or finishing textile fabrics." *Letters Patent sealed.*

WILLIAMSON.
PERKINS.
29th September 1859.

2208. ALEXANDER WILLIAM WILLIAMSON, of University College, and LOFTUS PERKINS, of Francis Street, Gray's Inn Road, Civil Engineer, for an invention for—"Improvements in steam boilers." *Letters Patent sealed.*

KEMPE.
29th September 1859.

2209. WILLIAM KEMPE, of Holbeck Mills, Leeds, for an invention for—"Improvements in machinery for raising the pile of woollen and other cloths."
Letters Patent sealed.

OXLAND.
29th September 1859.

2210. ROBERT OXLAND, of Plymouth, for an invention for—"Improvements in the treatment of saccharine matters." *Letters Patent sealed.*

WADSWORTH. 30th September 1859.

2211. JAMES WADSWORTH, of Manchester, in the County of Lancaster, Gas Engineer, for an invention for—"Improvements in instruments or apparatus for measuring the quantity, for regulating the pressure, and for controlling the flow or passage of gas used for purposes of illumination, and in the construction of gas burners." *Provisional protection only.*

GUIBAL. 30th September 1859.

2212. THÉOPHILE GUIBAL, Professor at the School of the Hainaut Mines, in the City of Mons, Belgium, for an invention for—"Modifying the installation and working of cables used in springing up mines." *Letters Patent sealed.*

HARTLEY. 30th September 1859.

2213. WILLIAM HARTLEY, of Bury, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam engines." *Letters Patent sealed.*

SONNEBORN. 30th September 1859.

2214. EDWARD SONNEBORN, of Lüdge, in Westphalia, Kingdom of Prussia, and now residing at 39, Finsbury Square, London, for an invention for—"An Improvement in the manufacture of cement." *Letters Patent sealed.*

BUCKHAM. 30th September 1859.

2215. THOMAS BUCKHAM, of Gloucester, in the County of Gloucester, Civil Engineer, for an invention for—"Improvements in the switches for railways." *Provisional protection only.*

SMITH. 30th September 1859.

2216. JOB ORTON SMITH, of 18, Warwick Court, Gray's Inn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of children's carriages called 'Perambulators.'" *Provisional protection only.*

ATKINSON. 30th September 1859.

2217. BENJAMIN ATKINSON, of Rainham, in the County of Essex, for an invention for—"Improvements in railway brakes." *Letters Patent sealed.*

BUCKLAND. 30th September 1859.

2218. WILLIAM HENRY BUCKLAND, of the Maesteg Iron Works, in the County of Glamorgan, Iron Master, for an invention for—"Improvements in the preparation of peat." *Letters Patent sealed.*

HART. 30th September 1859.

2219. HERBERT WILLIAM HART, of Fleet Street, in the City of London, Gas Engineer, for an invention for—"Improvements in argand and other gas burners, partly applicable to oil and other lamps." *Provisional protection only.*

CLARK. 30th September 1859.

2220 WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in railway signal apparatus."—*A communication from abroad by Messrs. Leon Jucqueau and Auguste Desgoffe, Civil Engineers, of 29, Boulevart St. Martin, Paris.* *Letters Patent sealed.*

JOHNSON. 30th September 1859.

2221. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of apparatus for reworking the waste steam of steam engines."—*A communication from abroad by Messieurs Dalifol and Company, of Paris, Manufacturers.* *Letters Patent sealed.*

SAMUELSON. SAMUELSON. 30th September 1859.

2222. MARTIN and ALEXANDER SAMUELSON, both of Scott Street Foundry Hull, in the County of York, Engineers and Iron Ship Builders, for an invention for, —"Improvements in planing, slotting, and grooving machines." *Letters Patent sealed.*

COCHRANE. 30th September 1859.

2223. The Honorable WILLIAM ERSKINE COCHRANE, of Osnaburgh Terrace, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in chairs and apparatus for receiving and securing the ends of the rails of railways." *Letters Patent sealed.*

EDWARDS. 30th September 1859.

2224. WILLIAM VAUGHAN EDWARDS, of Swindon, in the County of Wilts, Iron Founder, for an invention for—"Improvements in the construction of ways and apparatus to facilitate the conveyance of mails, goods, and passengers." *Provisional protection only.*

WARD. 1st October 1859.

2225. SETH WARD, of 8, Stanley place, Stanley Street, Pimlico, in the County of Middlesex, Machinist, for an invention for—"An apparatus to be used in the hardening of saws and steel plates generally." *Provisional protection only.*

PARKIN. BATES. 1st October 1859.

2226. WILLIAM PARKIN, of Sheffield, in the County of York, Engineer, and JAMES BATES, of Hyde, in the County of Chester, Cotton Spinner, for an invention for—"Improvements in wedges for railway chairs." *Letters Patent sealed.*

BROWN. 1st October 1859.

2227. CHARLES BROWN, of Warwick Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in inkstands and date indicator." *Provisional protection only.*

STOCKER.
1st October 1859.

2228. ALEXANDER SOUTHWOOD STOCKER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Certain improvements in the manufacture of articles to be affixed to boots and shoes and to the feet of animals, also applicable to chain links, washers and other suitable articles, and in the dies to be used therein." *Letters Patent sealed.*

BROOMAN.
1st October 1859.

2229. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in reverberatory, puddling and other furnaces employed in the manufacture of iron."—*A communication from abroad by G. Dallemagne, of Sclessin, Belgium.* *Provisional protection only.*

BAUGHAN.
1st October 1859.

2230. JOHN BAUGHAN, of Pimlico, in the County of Middlesex, for an invention for—"Improvements in the manufacture of soap." *Provisional protection only.*

MILLAR.
1st October 1859.

2231. JOHN MILLAR, of Edinburgh, in the County of Mid Lothian, North Britain, Glass Merchant, for an invention for—"Improvements in reflectors for diffusing artificial light." *Provisional protection only.*

NEWTON.
GREAVES.
1st October 1859.

2232. LEOPOLD NEWTON, Cotton Spinner, of Oldham, and JOHN GREAVES, Manager, of Stalybridge, both in the County of Lancaster, for an invention for—"Improvements in cop tubes or spools and in machinery for manufacturing the same." *Provisional protection only.*

BRIDGETT.
1st October 1859.

2233. GEORGE BRIDGETT, of Pilcher Gate, in the Town and County of the Town of Nottingham, Lace Manufacturer, for an invention for—"A new mode or method of manufacturing Shetland or other falls from the stocking frame." *Provisional protection only.*

WRIGHT.
1st October 1859.

2234. JOSEPH WRIGHT, of the Teesdale Iron Works, South Stockton, in the Parish of Thornaly, and North Riding of the County of York, Ironfounder and Engineer, for an invention for—"Improvements in apparatus for raising water and minerals from mines, which improvements are applicable to raising and hauling weights generally." *Letters Patent sealed.*

MOREWOOD.
3rd October 1859.

2235. EDMUND MOREWOOD, of Enfield, in the County of Middlesex, for an invention for—"Improvements in coating metals." *Letters Patent sealed.*

BROOMAN.
3rd October 1859.

2236. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in treating clay, and in the manufacture of bricks, tiles and other like articles, and in machinery employed therein."—*A communication from abroad by Jean Marie Rabier, of Paris.* *Provisional protection only.*

LEMAIRE.
3rd October 1859.

2237. LOUIS HENRI IGNACE LEMAIRE, of Stamford Street, Blackfriars, in the County of Surrey, Commercial Traveller, for an invention for—"Improvements in the manufacture of chenille." *Letters Patent sealed.*

EARLE.
BARNES.
3rd October 1859.

2238. WILLIAM RICHARDSON EARLE, and EDWIN JOHN BARNES, of Queen's Terrace, Queen's Head Lane, Islington, in the County of Middlesex, Artists in Hair, for an invention for—"Improvements in photographic and other portraits." *Provisional protection only.*

GREINER.
4th October 1859.

2239. GEORGE FREDERICK GREINER, of 57, Wells Street, St. Marylebone, in the County of Middlesex, Piano-forte Maker, for an invention for—"Improvements in the construction of piano fortes." *Letters Patent sealed.*

MENNONS.
4th October 1859.

2240. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved coupling-joint for pipes or tubes of soft metal, caoutchouc, gutta-percha, or other yielding matter."—*A communication from Louis J. Marie, a person residing in Paris.* *Provisional protection only.*

MENNONS.
4th October 1859.

2241. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved 'porte-jupe' or apparatus for suspending dress-skirts and other objects."—*A communication from Louis Auguste Mangin, residing in Paris.* *Provisional protection only.*

LOFTUS.
4th October 1859.

2242. JOHN LOFTUS, of Elton Fold, near Bury, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery for combining and carding cotton or silk and wool." *Provisional protection only.*

HOLLIS.
HOLLIS.
4th October 1859.

2243. RICHARD and WILLIAM HOLLIS, of the firm of Richard Hollis and Son, of High Coggs, Witney, in the County of Oxford, Agricultural Implement Makers, for an invention for—"Improvements in the construction of apparatus for winnowing and dressing grain." *Provisional protection only.*

ENGLISH.
4th October 1859.

2244. SAMUEL ROBERT ENGLISH, Seal Engraver and General Die Sinker, of Birmingham, in the County of Warwick, for an invention for—"A machine or apparatus for taking copies of writing." *Letters Patent sealed.*

BREARLEY.
4th October 1859.

2245. ROBERT BREARLEY, the younger, of Batley, in the County of York, Manufacturer, for an invention for—"Improvements in means or apparatus for raising the nap or pile of cloths." *Letters Patent sealed.*

BACKETT.
4th October 1859.

2246. WILLIAM BACKETT, of Old Kent Road, in the County of Surrey, Oilman, for an invention for—"Improved cleansing powders." *Letters Patent sealed.*

NEWTON.
4th October 1859.

2247. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus for generating steam."—*A communication from abroad by John Mason Carr, of New York, in the United States of America.* *Letters Patent sealed.*

ROSE.
CARTE.
PIKESLEY.
4th October 1859.

2248. JOHN MITCHELL ROSE, and RICHARD CARTE, of the firm of Rudall, Rose, Carte and Company, of Charing Cross, in the City of Westminster, Musical Instrument Makers, and WILLIAM PIKESLEY, Mechanic, in the employ of Rudall, Rose, Carte and Company, aforesaid, for an invention for—"Improvements in drums." *Letters Patent sealed.*

RAWLINGS.
4th October 1859.

2249. JAMES RAWLINGS, of Carlton Hill East, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of boot-tree." *Letters Patent sealed.*

COOK.
4th October 1859.

2250. THOMAS COOK, of Coburg Road, Old Kent Road, in the County of Surrey, Machanist, for an invention for—"Improved tools for making screws." *Letters Patent sealed.*

THOMPSON.
THOMPSON.
5th October 1859.

2251. JOHN THOMPSON, of Witton, near Northwich, Cheshire, and JOHN THOMPSON, the younger, of Castle Northwich, aforesaid, for an invention for—"The manufacture of salt by an improved and more economical mode." *Letters Patent sealed.*

DOVE.
5th October 1859.

2252. FREDERIC JOHN DOVE, of Studd Street, Islington, in the County of Middlesex, for an invention for—"Iron clasped bonding plates for joists and other building purposes." *Provisional protection only.*

WHYTOCK.
5th October 1859.

2253. ANDREW WHYTOCK, of No. 12, Little Saint Andrew Street, Upper Saint Martin's Lane, London, in the County of Middlesex, Superintendent, for an invention for—"A mode or method of applying joined sheets of metal for roofing and other purposes." *Provisional protection only.*

HERBERT.
5th October 1859.

2254. JANE ANN HERBERT, of Guildford, in the County of Surrey, Widow, for an invention for—"Manufacturing of oxychloride of lead."—*A communication from abroad by Ludwig Brumleu, of New York, in United States of America.* *Provisional protection only.*

SHIELDS.
5th October 1859.

2255. JOHN SHIELDS, of the City and County of Perth, North Britain, Power Loom Manufacturer, Perth and Cromwell Park, for an invention for—"Improvements in jacquard looms or machinery for weaving." *Letters Patent sealed.*

MOCKFORD.
5th October 1859.

2256. WILLIAM GEORGE SHARP MOCKFORD, of No. 67, Upper Thames Street, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of starch." *Provisional protection only.*

EAGLETON.
5th October 1859.

2257. JEHOIADA JOSEPH EAGLETON, of New York, in the United States of America, but now residing at Birmingham, in the County of Warwick, Manufacturer and Merchant, for an invention for—"An improvement or improvements in annealing furnaces." *Letters Patent sealed.*

FISHER.
ASPRAY.
5th October 1859.

2258. ROBERT FISHER, of Westbourne Grove, and CHARLES ASPRAY, of Newton Road, Westbourne Grove, for an invention for—"Improvements in photographic stereoscope slides and in the stereoscopes employed in viewing the same." *Provisional protection only.*

DAVIES.
5th October 1859.

2259. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the method of and apparatus for vaporizing liquids and heating air."—*A communication from abroad by Messrs. Gargan & Co., of Villette, France, Builders.* *Letters Patent sealed.*

DODD.
5th October 1859.

2260. THOMAS HENRY DODD, of Bessborough Place, Pimlico, Gun Maker, for an invention for—"Improvements in portable apparatuses for the use of smiths, carpenters, and other workmen." *Letters Patent sealed.*

SCOTT.
5th October 1859.

2261. JOHN SCOTT, of Sunderland, in the County of Durham, Anchor Smith, for an invention for—"Improvements in the manufacture of anchors." *Letters Patent sealed.*

NEWTON.
5th October 1859.

2262. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in blankets used for printing calicoes and other fabrics, and in the mode of washing or cleaning the same."—*A communication from abroad by Seth W. Baker, of Providence, Rhode Island, in the United States of America.* *Letters Patent sealed.*

NEWTON.
5th October 1859.

2263. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in revolving fire arms."—*A communication from abroad by Messrs. Perrin and Delmas, of Paris, in the Empire of France.* *Letters Patent sealed.*

PRICHARD.
5th October 1859.

2264. JOHN PRICHARD, of 6, Whitehall, in the County of Middlesex, Esquire, for an invention for—"Improvements in spurs." *Provisional protection only.*

EARLE.
5th October 1859.

2265. WILLIAM LOUIS EARLE, of Alfred Place, Bedford Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for promoting the combustion of smoke and gases arising from fuel." *Provisional protection only.*

WEBSTER.
5th October 1859.

2266. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improved construction of spring for carriages and other purposes." *Letters Patent sealed.*

MACINTOSH.
5th October 1859.

2267. JOHN MACINTOSH, of North Bank, Regent's Park, for an invention for—"Improvements in the manufacture of flexible tubes." *Letters Patent sealed.*

TURPIE.
5th October 1859.

2268. JAMES TURPIE, of North Shields, for an invention for—"Improvements in the fore and aft gaff and boom sails of ships." *Letters Patent sealed.*

MACINTOSH.
5th October 1859.

2269. JOHN MACINTOSH, of North Bank, Regent's Park, for an invention for—"Improvements in coating metallic conductors for electric telegraphs." *Letters Patent sealed.*

LONG. ARCHER.
5th October 1859.

2270. GEORGE LONG, and JAMES ARCHER, both of Landport, in the County of Hants, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

SMITH.
6th October 1859.

2271. GUSTAVUS ADOLPHUS SMITH, of Old Cavendish Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in shot and shells and other projectiles." *Letters Patent sealed.*

SCOTT.
SCOTT.
6th October 1859.

2272. JOHN PEERS SCOTT, and EDWARD SCOTT, both of the City of Manchester, Agents, for an invention for—An improved instrument for boring and drilling."—*A communication from abroad by Constantin von Longinoff, of Saint Petersburg, in the Empire of Russia.* *Provisional protection only.*

HOPKINS.
6th October 1859.

2273. WILLIAM HOPKINS, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved steam engine." *Letters Patent sealed.*

O'CONNELL.
6th October 1859.

2274. EDWARD O'CONNELL, of Bury, in the County of Lancaster, Surveyor and Draughtsman, for an invention for—"Improvements in apparatus for supplying liquid nourishment to infants, invalids, and others, and for warming or heating the same." *Letters Patent sealed.*

FREEMAN.
ROYLE.
6th October 1859.

2275. GEORGE FREEMAN, of Unsworth, near Bury, in the County of Lancaster, Manufacturer, and JAMES ROYLE, of the same place, Manager, for an invention for—"Improvements in looms." *Provisional protection only.*

TINDALL.
6th October 1859.

2276. ENOCH OLDFIELD TINDALL, of Scarborough, in the County of York, Engineer, for an invention for — "Improvements in machinery or apparatus for crushing or reducing grain, seeds, and other substances." *Letters Patent sealed.*

MACFARLANE.
6th October 1859.

2277. WALTER MACFARLANE, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention for—"Improvements in machinery or apparatus for drawing off or discharging liquids, and in fountains, baths, and similar receptacles for liquids." *Letters Patent sealed.*

FERRY.
6th October 1859.

2278. ALEXANDER MACKENZIE FERRY, of Edinburgh, in the County of Mid Lothian, North Britain, Merchant, for an invention for—"Improvements in the manufacture or production of oil and in lamps for burning the same." *Letters Patent sealed.*

BENSON.
6th October 1859.

2279. WILLIAM BENSON, of Fourstones, near Hexham, in the County of Northumberland, Colliery Owner, for an invention for—"Improvements in projectiles for muzzle loading rifled ordnance." *Letters Patent sealed.*

HIND.
LOWENTHAL.
6th October 1859.

2280. ANDREW HIND, of 60, High Street, Poplar, & JULIUS LOWENTHAL, of 16, Little Tower Street, for an invention for—"Improvements in the manufacture of pottery and china wares."—*A communication from abroad by Gustav Gumpel, of No. 1, Stobenstrasse, Brunswick, Germany.* *Letters Patent sealed.*

BARRON.
6th October 1859.

2281. WILLIAM BARRON, of Elvaston, in the County of Derby, Garden Architect and Landscape Gardener, for an invention for—"Improvements in boilers applicable to heating and steam generating purposes." *Provisional protection only.*

WARRY.
6th October 1859.

2282. ROBERT WARRY, of Brompton Barracks, in the County of Kent, Armourer Serjeant, 3rd Depot Battalion, for an invention for—"Improvements in breech-loading ordnance and in projectiles for the same." *Provisional protection only.*

NEWTON.
6th October 1859.

2283. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction and manufacture of casks, barrels, and such like vessels, and in the machinery or apparatus to be employed for such manufacture."—*A communication from abroad by Jean De Lihatcheff, of Yaroslawl, in the Empire of Russia.* *Letters Patent sealed.*

GIBSON.
GIBSON.
6th October 1859.

2284. GEORGE GIBSON, and JAMES GIBSON, of Southall, in the County of Middlesex, Surveyors, for an invention for—"Improved machinery for raising and removing soil or earth from sewers and other excavations." *Letters Patent sealed.*

LEE.
7th October 1859.

2285. GEORGE LAWRENCE LEE, of 49, Holborn Hill, in the City of London, Lithographer, for an invention for—"Improvements in producing printing surfaces." *Provisional protection only.*

BROOKES.
7th October 1859.

2286. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in securing the tyres of railway carriage and engine wheels."—*A communication from abroad by Robert Stothert Kirkpatrick, of Brussels, in the Kingdom of Belgium, Civil Engineer.* *Letters Patent sealed.*

DODGE.
7th October 1859.

2287. GEORGE POMEROY DODGE, of 44, St. Paul's Church Yard, in the City of London, Merchant and Manufacturer, for an invention for—"Improvements in apparatus for preserving life, applicable to garments."—*A communication from abroad by Holman J. Hall, of New York, in the United States of America.* *Provisional protection only.*

DIXON.
7th October 1859.

2288. JOHN DIXON, of the Borough and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in apparatus for supplying water to waterclosets." *Provisional protection only.*

MCCALLUM.
7th October 1859.

2289. DAVID MCCALLUM, of Plymouth, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

DAWSON.
SINGLETON.
8th October 1859.

2290. WILLIAM DAWSON, of Blackburn, in the County of Lancaster, Shuttle Maker, and THOMAS SINGLETON, of Over Darwen, in the said County, Weaver, for an invention for—"Improvements in apparatus applicable to looms for weaving." *Letters Patent sealed.*

IRLAM.
8th October 1859.

2291. WILLIAM IRLAM, of Newton Heath, near the City of Manchester, Engineer, for an invention for—"Improvements in the construction of railway turn tables and cranes." *Letters Patent sealed.*

JOHNSON.
8th October 1859.

2292. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment of fatty matter." —*A communication from abroad by Joseph Etienne Lhonoré, of Paris, in the Empire of France, Manufacturer.* *Letters Patent sealed.*

BROUGH.
8th October 1859.

2293. JOHN BROUGH, Machinist, of Birmingham, in the County of Warwick, for an invention for—"An improved waterproof dress for protecting and saving life at sea or in other situations where a waterproof dress may be required, as also in the apparatus to be attached to or used with the same for assisting the wearer to hoist or make signals by night or by day, and to inflate, propel and guide or direct himself as desired, the waterproofing principle of which being also applicable to other useful purposes." *Provisional protection only.*

ROBERTSON.
8th October 1859.

2294. PATRICK ROBERTSON, of Sun Court, Cornhill, in the City of London, for an invention for—"Improvements in preparing, boiling, and fermenting worts, and in maturing beer, spirits, and cyder." *Letters Patent sealed.*

CHILDS.
8th October 1859.

2295. JAMES CHILDS, of Windsor House, Putney, in the County of Surrey, for an invention for—"Improvements in the manufacture of artificial gums." *Letters Patent sealed.*

MONUMENT.
BERRY.
8th October 1859.

2296. HENRY MONUMENT, of Myrtle Street, Dalston, and GEORGE BERRY, of Buttesland Street, Shoreditch, for an invention for—"Improvements in apparatus for raising and moving earth and other matters and bodies." *Letters Patent sealed and specification filed by order.*

PARFITT.
10th October 1859.

2297. JOHN SPALDING PARFITT, of 60, Boulevart de Strasbourg, Paris, Practical Engineer, for an invention for—"A registering nautical velocimeter for measuring the speed of ships and also of currents of water." *Provisional protection only.*

BENTLEY.
SILLEM.
10th October 1859.

2298. JOSEPH BENTLEY, of Liverpool, in the County of Lancaster, Gun Manufacturer, and HERMAN JAMES SILLEM, of the firm of Fawcett, Preston & Co., of Liverpool, aforesaid, Engineers, for an invention for—"Improvements in breech loading fire arms and the machinery for manufacturing projectiles for small arms." *Provisional protection only.*

SHAW.
10th October 1859.

2299. CHARLES ALBERT SHAW, of Biddeford, in the State of Maine, in the United States of America, Broker, for an invention for—"Improvements in machinery for shaping or bending tinned sheet iron and other sheet metal."—*A communication from abroad by William Burton, of Casenovia, in the County of Madison, and State of New York, America.* *Provisional protection only.*

KNOWLES.
KNOWLES.
RIGG.
10th October 1859.

2300. THOMAS KNOWLES, and JAMES KNOWLES, of the City of Manchester, in the County of Lancaster, Engineers, and ARTHUR RIGG, of the City of Chester, for an invention for—"Improvements in machinery or apparatus for shaping, cutting, punching and drilling metals, which improvements are also applicable to presses." *Letters Patent sealed.*

WHITE.
10th October 1859.

2301. GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the City of London, for an invention for—"Improvements in frames for spinning and twisting yarn of any description of textile materials."—*A communication from abroad by Mr. Charles Leyherr, of Leval (France).* *Letters Patent sealed.*

DAVIES.
10th October 1859.

2302. GEORGE DAVIES, of No, 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in the manufacture of paper, pasteboard and card board."—*A communication from abroad by Messrs. Jules, Lagosse & Sons, Manufacturers, and Frederic Quentin, Merchant, all of Paris, France.* *Letters Patent sealed.*

PARKER. 10th October 1859. **2303.** SAMUEL BREWSTER PARKER, of Deptford, in the County of Kent, Manufacturer, for an invention for—"A method of and apparatus for revivifying oxide of iron and other agents for purifying gas containing metallic particles." *Provisional protection only.*

MARTIN. 10th October 1859. **2304.** WILLIAM MARTIN, Junior, of Dundee, Calenderer, for an invention for—"An improved method of damping linen and other textile fabrics." *Provisional protection only.*

JEANNIN. 11th October 1859. **2305.** LOUIS JOSEPH JEANNIN, of the Town of Pontarlier, Department of the Doubs, Empire of France, a Mechanic, for an invention for—"A new system of pumps." *Provisional protection only.*

BEYER. 11th October 1859. **2306.** CHARLES FREDERICK BEYER, of the firm of Messrs. Beyer, Peacock and Company, of the Gorton Foundry, near the City of Manchester, Engineers, for an invention for—"Improvements in machinery for boring and drilling." *Letters Patent sealed.*

TENTING. 11th October 1859. **2307.** JOSEPH LOUIS TENTING, ainé, of Paris, France, Engineer, for an invention for—"Improvements in the construction of buffers for railway and other carriages, also applicable to other purposes where springs are employed." *Letters Patent sealed.*

TENTING. 11th October 1859. **2308.** JOSEPH LOUIS TENTING, ainé, of Paris, France, Engineer, for an invention for—"Improvements in the construction of the axles of railway and other carriages." *Letters Patent sealed.*

EARL. 11th October 1859. **2309.** JOHN EARL, of Melbourne, in the County of Derby, Railway Contractor, for an invention for—"Improvements in arranging and applying harness to the draft of carriages." *Letters Patent sealed.*

HART. 11th October 1859. **2310.** WILLIAM DICKSON HART, of Edinburgh, in the County of Mid Lothian, North Britain, Philosophical Instrument Maker, for an invention for—"Improvements in pressure regulating apparatus for gas burners." *Provisional protection only.*

SMITH. 11th October 1859. **2311.** JOHN SMITH, of Oldham, in the County of Lancaster, Manufacturer for an invention for—"Improvements in breech-loading fire-arms and ordnance." *Letters Patent sealed.*

CUNNINGHAM. 11th October 1859. **2312.** PATRICK GREGSON CUNNINGHAM, of Salisbury, Wilts, for an invention for—"Improvements in the construction of artificial teeth and gums." *Provisional protection only.*

WHYTOCK. 11th October 1859. **2313.** ANDREW WHYTOCK, of 12, Little Saint Andrew Street, Upper Saint Martin's Lane, in the County of Middlesex, for an invention for—"Improvements in coating sheets of metal with other metals and other substances." *Letters Patent sealed.*

NEWTON. 11th October 1859. **2314.** ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of clarifying and defecating saccharine solutions and juices."—*A communication from abroad by Horatio Nelson Fryatt, of New York, in the United States of America.* *Letters Patent sealed.*

LOHAGE. 11th October 1859. **2315.** FRANZ ANTON LOHAGE, of Unna, Westphalia, in the Kingdom of Prussia, Chemist, for an invention for—"An improved construction of water wheel."—*A communication from abroad by Mr. Scharschmidt, of Arnsberg, in Westphalia aforesaid.* *Letters Patent sealed.*

SKERTCHLY. 12th October 1859. **2316.** JOSEPH SKERTCHLY, of Ashby-de-la-Zouch, in the County of Leicester, Engineer, for an invention for—"Improvements in the manufacture of mosaic and other ornamental tiles and slabs, and in apparatus connected therewith." *Letters Patent sealed.*

SCOTT. 12th October 1859. **2317.** GEORGE SCOTT, Engineer, of No. 3, Priory Cottages, Peckham, in the County of Surry, for an invention for—"Improvements in generating elastic fluids and in the apparatus for that purpose." *Letters Patent sealed.*

DAY. 12th October 1859. **2318.** WILLIAM DAY, Builder, of Burton Latimer, near Wellingborough, in the County of Northampton, for an invention for—"A direct-action rotary steam engine." *Provisional protection only.*

HELY.
12th October 1859.

2319. ALFRED AUGUSTUS DE REGINALD HELY, of 2, Park Village West, Regent's Park, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the manufacture of tobacco for smoking purposes." *Letters Patent sealed.*

CARRICK.
12th October 1859.

2320. JAMES CARRICK, Hotel Proprietor, Glasgow, for an invention for—"Improvements in commodes, water closets and other sanitary appliances." *Letters Patent sealed.*

NUTTALL.
12th October 1859.

2321. ZACCHEUS NUTTALL, of Stockport, in the County of Chester, Weaver, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

THOMSON.
12th October 1859.

2322. JAMES THOMSON, of Notting Hill, in the County of Middlesex, Gas Engineer, for an invention for—"An improved form of hydraulic valve and apparatus to be used in the manufatture of gas." *Provisional protection only.*

ROTHWELL.
12th October 1859.

2323. THOMAS ROTHWELL, of Manchester, in the County of Lancaster, Contractor, for an invention for—"Improvements applicable to warehouses and other buildings in which 'well-holes' are constructed for the purposes of light and ventilation." *Letters Patent sealed.*

BARON.
WHEATER.
TATLEY.
12th October 1859.

2324. EDWARD HOWORTH BARON, Manager, and JAMES WHEATER, Mechanic, both of Lee Mill, near Bacup, and LAMBERT TATLEY, Cotton Manufacturer, of Crawshaw Booth, all in the County of Lancaster, for an invention for—"Certain improvements in carding engines for carding cotton, wool, or other fibrous materials." *Provisional protection only.*

TANGYE.
12th October 1859.

2325. JAMES TANGYE, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved method of actuating certain kinds of motive power engines, and in the distribution of motive power." *Provisional protection only.*

TAYLOR.
12th October 1859.

2326. EDWARD HENRY TAYLOR, of Rubicon Works, Saltney, in the City of Chester, Engineer, for an invention for—"Improvements in apparatus applicable to the permanent way of railways." *Provisional protection only.*

SOUTHALL.
12th October 1859.

2327. CHARLES HENRY SOUTHALL, of Blackburn, in the County of Lancaster, Boot and Shoe Maker, for an invention for—"An improved apparatus for making and finishing boots and shoes." *Letters Patent sealed.*

MOODY.
12th October 1859.

2328. CHARLES PETERS MOODY, of Corton Denham, in the County of Somerset, Gentleman, for an invention for—"A method of and apparatus for raising grass and other crops on to stacks, which apparatus is also applicable to raising and transferring weights." *Letters Patent sealed.*

DAFT.
12th October 1859.

2329. THOMAS BARNABAS DAFT, of Tottenham, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in flexible valves." *Letters Patent sealed.*

BRIGHT.
12th October 1859.

2330. HENRY BRIGHT, of Sandwich Street, Burton Crescent, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for navigating the air." *Letters Patent sealed.*

TWELLS.
12th October 1859.

2331. THOMAS TWELLS, of the Town and County of the Town of Nottingham, Mechanist, for an invention for—"Improvements in machinery and apparatus connected therewith for embroidering or ornamenting woven, looped, or lace fabrics." *Letters Patent sealed.*

HOLDEN.
HOLDEN.
13th October 1859.

2332. ABRAHAM HOLDEN, of North End, near Stalybridge, in the County of Chester, Manager, and JAMES HOLDEN, of Micklehurst, in the same County, Madder Dyer, for an invention for—"Improvements in machinery used in washing, dyeing, sizing, and drying yarn and thread." *Provisional protection only.*

RHONE.
13th October 1859.

2333. JONATHAN RHONE, of Leman Street, Whitechapel, for an invention for—"An indicating meter tap." *Provisional protection only.*

PROSSER.
13th October 1859.

2334. WILLIAM PROSSER, of 24, Dorset Place, Dorset Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus employed in the production of light." *Letters Patent sealed.*

HUNTER.
13th October 1859.

2335. JAMES HUNTER, of Kilmahumaig, in the County of Argyll, North Britain, Farmer, for an invention for—"Improvements in machinery or apparatus for ploughing or cultivating land." *Letters Patent sealed.*

BURGESS.
13th October 1859.

2336. WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the City of London, Agricultural Implement Makers, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*

ROUSSEAU.
13th October 1859.

2337. LOUIS HENRI ROUSSEAU, of 29, Boulevart St. Martin, Paris, in the Empire of France, Mechanician, for an invention for—"Improvements in steam engines." *Provisional protection only.*

VICARS.
VICARS.
ASHMORE.
SMITH.
13th October 1859.

2338. THOMAS VICARS, Senior, and THOMAS VICARS, Junior, THOMAS ASHMORE, Engineers, and JAMES SMITH, Baker, all of Liverpool, in the County Palatine of Lancaster, for an invention for—"Improvements in the manufacture of bread, biscuits, and like articles, and in the machinery and apparatus connected therewith." *Letters Patent sealed.*

COLLINS.
14th October 1859.

2339. CHARLES COLLINS, of Lower Road, Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of grease for lubricating the axles of railway and other carriages, the journals of machinery, and for other like purposes."—*A communication from abroad by P. Gailhard Fisse, of Alicante, in the Kingdom of Spain.* *Provisional protection only.*

CONSCIENCE.
14th October 1859.

2340. JEAN FRANÇOIS CONSCIENCE, of No. 8, St. John Street Road, Clerkenwell, London, in the County of Middlesex, for an invention for—"A new and improved process of making bread, and certain machinery connected with it." *Provisional protection only.*

LEVICK.
14th October 1859.

2341. FREDERICK LEVICK, of Blaina Cwm Celyn and Coalbrook Vale Iron Works, in the County of Monmouth, Iron Master, for an invention for—"An improvement or improvements in the manufacture of iron." *Letters Patent sealed.*

HENDERSON.
14th October 1859.

2342. JOHN PIERCY HENDERSON, of Summerford House, in the County of Stirling, North Britain, Manufacturing Chemist, for an invention for—"Improvements in stop cocks or valves." *Provisional protection only.*

PRICE.
14th October 1859.

2343. GEORGE PRICE, of Wolverhampton, in the County of Stafford, Fire-proof Safe Manufacturer, for an invention for—"Improvements in locks." *Letters Patent sealed.*

VARLEY.
CROWTHER.
14th October 1859.

2344. JOHN VARLEY, of Radcliffe, in the County of Lancaster, Engineer, and JEREMIAH CROWTHER, of Bradford, in the County of York, Carrier, for an invention for—"Improvements in steam engines and boilers." *Letters Patent sealed.*

JACK.
14th October 1859.

2345. JAMES JACK, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam engines and boilers for marine and land purposes." *Letters Patent sealed.*

GOLDSMITH.
14th October 1859.

2346. GEORGE GOLDSMITH, of Leicester, Gas Meter Inspector, for an invention for—"Improvements in gas meters." *Provisional protection only.*

ROBINSON.
14th October 1859.

2347. THOMAS ROBINSON, of St. Helen's, Lancashire, Iron Founder, for an invention for—"Improvements in annealing or softening wire." *Letters Patent sealed.*

WISE.
14th October 1859.

2348. HENRY WILLIAM CHAPMAN WISE, of Titchfield, Hampshire, for an invention for—"An improved domestic apparatus for making tea, coffee, and other such like beverages." *Provisional protection only.*

NEWTON.
15th October 1859.

2349. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in the mode of applying india rubber, gutta percha, or other elastic substances to give elasticity between the tires or outer rims and the hubs or naves of railway or other wheels, and between other metallic bodies."—*A communication from abroad by Edward Crane, of Dorchester, Norfolk County, Massachusetts, in the United States of America.* *Provisional protection only.*

CHAPMAN.
15th October 1859.

2350. HENRY CHAPMAN, of Battlebarrow, Appleby, in the County of Westmoreland, for an invention for—"An improved self-acting safety railway break." *Provisional protection only.*

LEIGH.
5th October 1859.

2351. FREDERICK ALLEN LEIGH, of the City of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for the manufacture of screws, bolts, and nuts."—*A communication from abroad by Richard Hartmann, of Chemnitz, in the Kingdom of Saxony.*
Letters Patent sealed.

FERNIHOUGH.
15th October 1859.

2352. JAMES FERNIHOUGH, of Dukinfield, in the County of Chester, Engineer, for an invention for —"Improvements in the construction of steam boilers and apparatus connected therewith." *Provisional protection only.*

BATES.
15th October 1859.

2353. RALPH BATES, of Castle Mills, Stalybridge, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in engines for carding cotton and other fibrous substances."—*A communication from abroad by John Robinson, of New York, United States of America.* *Provisional protection only.*

JOHNSON.
15th October 1859.

2354. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for breaking stones."—*A communication from abroad by Monsieur Bac, of Paris, in the Empire of France.* *Provisional protection only.*

ECHARD.
15th October 1859.

2355. JOSEPH ECHARD, of Paris (France), Agricultural Implement Manufacturer, for an invention for—"Improvements in machines and apparatus for ploughing and sowing."—*A communication from Mr. Estlimbaum, a person resident Rue de Bondy, 54, at Paris.* *Letters Patent sealed.*

HENRY.
15th October 1859.

2356. MICHAEL HENRY, of 84, Fleet Street, in the City of London, Patent Agent, for an invention for—"An apparatus for washing hanks, skeins, threads, and yarns of silk and other fibrous materials."—*A communication from abroad by Jean Baptiste Berthaud, the younger, of 33, Boulevard Saint Martin, Paris, France.*
Provisional protection only.

BROWN.
15th October 1859.

2357. JOHN HARCOURT BROWN, of Abbey Mill House, Romsey, in the County of Hants, for an invention for—"Improvements in the preparation of gunpowder for loading ordnance and fire arms." *Letters Patent sealed.*

MONTANARI.
15th October 1859.

2358. NAPOLEON MONTANARI, of Charles Street, Soho Square, in the County of Middlesex, for an invention for — "An improved apparatus for aiding children in learning to walk." *Letters Patent sealed.*

SMITH.
15th October 1859.

2359. ROBERT SMITH, of Islington, in the Borough of Finsbury, Ship-owner, for an invention for—"The purification of water and other fluids."
Letters Patent sealed.

ELDER.
15th October 1859.

2360. JOHN ELDER, of Glasgow, Engineer, for an invention for—"Improvements in steam and other engines." *Letters Patent sealed.*

BERRY.
17th October 1859.

2361. GEORGE BERRY, of Number 19, Buttesland Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of glass and earthenware vessels for containing fluids, particularly such vessels as are intended to contain fluids which may exert dynamic force on the stoppers of such vessels." *Provisional protection only.*

HALL.
17th October 1859.

2362. WILLIAM KEMBLE HALL, Engineer, of 36, Cannon Street, in the City of London, for an invention for—"Improvements in apparatus for manufacturing cotton wadding."—*A communication from abroad by John Smith, of New York, in the U.S. of America.* *Letters Patent sealed.*

VIDIE.
17th October 1859.

2363. LUCIEN VIDIE, of Paris, France, Gentleman, for an invention for—"Improvements in transmitting the motion of steam engines." *Letters Patent sealed.*

NEWBERRY.
MOORE.
17th October 1859.

2364. SAMUEL NEWBERRY, of Burnley, in the County of Lancaster, Manager, and HENRY MOORE, of the same place, Cotton Spinner, for an invention for —"Certain improvements in looms for weaving." *Letters Patent sealed.*

REYNOLDS.
DANCE.
17th October 1859.

2365. GEORGE WAIDE REYNOLDS, of Birmingham, in the County of Warwick, Manufacturer, and ENOCH DANCE, of Birmingham, aforesaid, Manager of Works, for an invention for—"A new or improved manufacture of baskets and other articles usually made of wicker work, and new or improved machinery to be employed in the said manufacture." *Provisional protection only.*

NEWTON. 17th October 1859.

2366. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in rotary steam engines."—*A communication from abroad by Charles Smith Hathaway, of Athol, Thomas Huston Witherby, and Luke Bucklin Witherby, both of Worcester, and Jonathan Horatio Nelson, of Shrewsbury, all in the County of Worcester, and State of Massachusetts, United States of America.*

Letters Patent sealed.

NEWTON. 17th October 1859.

2367. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in preserving and disinfecting organic substances."—*A communication from abroad by Vincent Marie Féraud Leonard Laureau, and Felix Richard, all of Paris, in the Empire of France.* *Letters Patent sealed.*

NORTON. 17th October 1859.

2368. WILLIAM NORTON, of Hollybank in the County of Cavan, Mill Owner and Farmer, for an invention for—"Improvements in kilns for drying grain."

Letters Patent sealed.

BERNARD. 17th October 1859.

2369. JULIAN BERNARD, of the Albany, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture or production of boots and shoes and other coverings for the feet, and in the machinery, apparatus and means connected with such manufacture." *Letters Patent sealed.*

THOM. KENNEDY. 17th October 1859.

2370. JAMES THOM, Power-loom Manufacturer, and ANGUS KENNEDY, Civil Engineer, both of Glasgow, in the County of Lanark, North Britain, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

JONES. 17th October 1859.

2371. DAVID JONES, of Bassaleg, in the County of Monmouth, Civil Engineer, for an invention for—"Improvements in self-acting breaks to be used on railways."

Letters Patent sealed.

BROOMAN. 17th October 1859.

2372. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in electro-magnetic engines, and in apparatus connected therewith."—*A communication from abroad by Messrs. J. S. Rousselot and Company, of Paris.* *Letters Patent sealed.*

HALL. WELLS. 17th October 1859.

2373. WALTER HALL, and ARTHUR WELLS, both of Erith, in the County of Kent, India-rubber Web Manufacturers, for an invention for—"Improvements in the manufacture of ropes and cords." *Provisional protection only.*

TILLIE. 17th October 1859.

2374. WILLIAM TILLIE, of the City of Londonderry, Manufacturer, for an invention for—"Improvements in sewing machines." *Letters Patent sealed.*

CANOUIL. 18th October 1859.

2375. GERMAIN CANOUIL, of 93, Curtain Road, Shoreditch, in the County of Middlesex, Chemist for an invention for—"Cartridges's paper chemically prepared for percussion fire-arm." *Provisional protection only.*

DARLINGTON. 18th October 1859.

2376. JOHN DARLINGTON, of No. 36, Cannon Street, City of London, Mining Engineer, for an invention for—"Improvements in glass furnaces."

Provisional protection only.

REYNOLDS. 18th October 1859.

2377. JOSEPH REYNOLDS, of 21, Bull and Mouth Street, City of London, Engineer, for an invention for—"Improvements in the manufacture of wrought nails."—*A communication from abroad by Henry Coggshall, of Providence, R.I., U.S. of America.* *Letters Patent sealed.*

WILLIAMSON. 18th October 1859.

2378. ALEXANDER WILLIAM WILLIAMSON, of University College, for an invention for—"Improvements in obtaining extracts from poppies."

Letters Patent sealed.

BOUSFIELD. 18th October 1859.

2379. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for steering vessels.—*A communication from abroad by Edward N. Dickerson, of Park Row, New York, United States of America.* *Provisional protection only.*

HIGGINS. WHITWORTH. 18th October 1859.

2380. JAMES HIGGINS, of Salford, in the County of Lancaster, Machine Maker, and THOMAS SCHOFIELD WHITWORTH, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for preparing and spinning cotton and other fibrous materials." *Letters Patent sealed.*

HILL.
18th October 1859.

2381. CALEB HILL, of Cheddar, in the County of Somerset, Stay Manufacturer, for an invention for—"An improved fastening for stays and other purposes."
Provisional protection only.

NEWTON.
18th October 1859.

2382. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery used for preparing for spinning silk, wool or other fibrous substances.' —*A communication from abroad by Charles De Jongh, of Guebwiller, in the Empire of France.* *Letters Patent sealed.*

NEWTON.
18th October 1859.

2383. WILLIAM EDWARD NEWTON, of the Office of Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of making combs or gills employed in the preparation of fibrous substances." —*A communication from abroad by Charles De Jongh, of Guebwiller, in the Empire of France.* *Letters Patent sealed.*

HIRSCH.
18th October 1859.

2384. HERMANN HIRSCH, of Berlin, in the Kingdom of Prussia, for an invention for—"A new propeller for ships." *Provisional protection only.*

ROTT.
18th October 1859.

2385. AUGUSTE SCHEURER ROTT, of Thann, in the French Empire, Manufacturer, for an invention for—"The preparation of certain substances for fixing colors in dyeing and printing and for other purposes." *Letters Patent sealed.*

BANKS.
19th October 1859.

2386. JOHN HENRY BANKS, of the Mediæval Works, Radnor Street, in the City of Manchester, Sculptor, for an invention for—"Improvements in machinery for boring, cutting, moulding, and carving wood, stone and other materials."
Provisional protection only.

WORSSAM.
19th October 1859.

2387. GEORGE WORSSAM, of No. 3, Oakeley Crescent, City Road, in the County of Middlesex, for an invention for—"An improvement in noncondensing steam engines." *Provisional protection only.*

GREGG.
19th October 1859.

2388. GEORGE GREGG, of Sheffield, in the County of York, Currier, for an invention for—"An improved method of dyeing leather black."
Provisional protection only.

GORDON.
19th October 1859.

2389. JOHN GORDON, Engineer, 3, Railway Place, Fenchurch Street, in the City of London, for an invention for—"Improvements in machinery or apparatus for pulping coffee." *Letters Patent sealed.*

BLACKWELL.
19th October 1859.

2390. JOHN KENYON BLACKWELL, of No. 73, Gloucester Terrace, Hyde Park, in the County of Middlesex, Iron Master, for an invention for—"Improvements in reverberatory and other furnaces."—*A communication from abroad by W. H. Kirkpatrick, of* 11, *Rue Martel, Paris.* *Provisional protection only.*

SPENCER.
19th October 1859.

2391. THOMAS SPENCER, of 192, Euston Road, Euston Square, in the County of Middlesex, Analytical and Consulting Chemist, for an invention for—"Improvements in the manufacture of carbonate of soda." *Provisional protection only.*

SETON.
19th October 1859.

2392. CHARLES SETON, of Edinburgh, in the County of Mid Lothian, Coach Builder, for an invention for—"Improvements applicable to the wheels of carriages generally for the purpose of reducing the draught thereof." *Letters Patent sealed.*

COWPER.
19th October 1859.

2393. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in photographing on uneven surfaces and in apparatus for that purpose.—*A communication from abroad by John Henry Pein, of New York, in the United State of America.*
Letters Patent sealed.

HART.
19th October 1859.

2394. GEORGE HART, of No. 6, Chapel Street West, May Fair, in the County of Middlesex, for an invention for—"Improvements in the manufacture of hats."
Letters Patent sealed.

BOWEN.
19th October 1859.

2395. JOHN JAMES BOWEN, of 136, Great Dover Street, Southwark, in the County of Surrey, Licensed Victuallers' Pot Manufacturer, for an invention for—"Improvements in manufacturing the pots for containing liquids used by publicans and others." *Provisional protection only.*

BRUCKSHAW. BRUCKSHAW. UNDERHILL. 19th October 1859.

2396. JOHN BRUCKSHAW, of Longslow, in the County of Salop, and HENRY BRUCKSHAW, of Hinstock, in the same County, Engineers, and WILLIAM SCOTT UNDERHILL, of Newport, in the same County, Manufacturer, for an invention for—"Improvements in machinery for elevating grain or other similar substances." *Letters Patent sealed; specification filed by order.*

WARNE. JAQUES. FANSHAWE. 19th October 1859.

2397. WILLIAM WARNE, JAMES ARCHIBALD JAQUES, & JOHN AMERICUS FANSHAWE, of Tottenham, in the County of Middlesex, India-rubber Manufacturers, for an invention for—"Improvements in the manufacture of elastic hoops or bands and other analogous elastic articles applicable to various parts of ladies' and gentlemen's wearing apparel, and in the machinery employed in such manufacture." *Letters Patent sealed.*

HOBSON. 19th October 1859.

2398. RICHARD HOBSON, of Leeds, in the County of York, Doctor of Medicine, for an invention for—"Improvements in producing ornamental devices in glass or other transparent substances for decorative or other purposes." *Letters Patent sealed.*

PALMER. 19th October 1859.

2399. JOSEPH RANDALL PALMER, of Newport Cottage, Old Ford, Bow, in the County of Middlesex, for an invention for—"Improvements in the manufacture of printing ink and paints and varnishes, and also in the manufacture of lacquers, japans, and blacking." *Letters Patent sealed.*

HUGHES. 20th October 1859.

2400. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in machinery or apparatus for compressing and making caps for cartridges."—*A communication from abroad by Henri Mennig, Mécanicien, residing at Molenbeck St. Jean, Belgium.*" *Letters Patent sealed.*

BROOMAN. 20th October 1859.

2401. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A crypto-graphic machine or apparatus for carrying on secret correspondence."—*A communication from abroad by Jules François Victor Mouilleron, of Paris.* *Letters Patent sealed.*

GODEFROY. 20th October 1859.

2402. PETER AUGUSTIN GODEFROY, of King's Mead Cottages, New North Road, Islington, in the County of Middlesex, for an invention for—"Improvements in the construction of submarine cables." *Letters Patent sealed.*

NIVELLE. 20th October 1859.

2403. FRANÇOIS NIVELLE, of Paris, in the Empire of France, Shoe-maker, for an invention for—"Improvements in sewing-machines." *Letters Patent sealed.*

HODGSON. 20th October 1859.

2404. JAMES HODGSON, of Liverpool, for an invention for—"Improvements in building ships and vessels." *Letters Patent sealed.*

HANSON. 20th October 1859.

2405. CHARLES HANSON, of Tottenham Court Road, in the County of Middlesex, Gun Manufacturer, for an invention for—"Improvements in fire-arms and ordnance." *Letters Patent sealed.*

MUSGRAVE. 21st October 1859.

2406. JAMES MUSGRAVE, of the firm of John Musgrave and Sons, of the Globe Iron Works, Bolton-le-Moors, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-boilers." *Letters Patent sealed.*

GREEN. 21st October 1859.

2407. JONATHAN HARRINGTON GREEN, of Christiansburg, in the County of Wapello, and State of Iowa, in the United States of America, for an invention for—"A composition for coating metals and other substances for various purposes." *Letters Patent sealed.*

PITMAN. 21st October 1859.

2408. JOHN TALBOT PITMAN, of the American & European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"An improved mode of converting cast iron into soft malleable iron without change of form."—*A communication from abroad by J. A. K. Eaton, of the City, County and State of New York, in the United States of America.* *Letters Patent sealed.*

PITMAN. 21st October 1859.

2409. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"A method of clearing the bed of rivers."—*A communication to him from abroad by William Kennesh, of the City of New York, in the State of New York, one of the United States of America.* *Provisional protection only.*

BOUSFIELD.
21st October 1859.

2410. GEORGE TOMLINSON BOUSFIELD, of Loughborough Road, Brixton, in the County of Surrey, for an invention for—"Improvements in apparatus for steering vessels."—*A communication from abroad by E. N. Dickerson, of Park Row, New York, United States of America.* *Letters Patent sealed.*

PRIDEAUX.
21st October 1859.

2411. THOMAS SYMES PRIDEAUX, of Willow House, Hampstead, and 32, Charing Cross, Civil Engineer, for an invention for—"Improvements in the construction of ships and rafts." *Letters Patent sealed.*

MALTBY.
21st October 1859.

2412. WILLIAM MALTBY, of De Crespigny Park, Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in refining oils." *Provisional protection only.*

AVERY.
22nd October 1859.

2413. JOHN AVERY, of Essex Street, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in rail-road weigh-locks and other platform scales."—*A communication from abroad by E. Sampson & Dennison S. Wheeler, of Troy, U.S.A.* *Complete specification; Letters Patent sealed.*

JONES.
22nd October 1859.

2414. PETER JONES, of the City of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for suspending, carrying, and laying down paper, woven fabrics, paper-hangings, and all kinds of flexible materials during and after the process of drying, and also for giving a continuous positive motion to the suspending rods or spindles." *Letters Patent sealed.*

MILL.
22nd October 1859.

2415. GEORGE BICKERTON MILL, of the City of Toronto, Canada West, Plumber, for an invention for—"Improvements in pressure regulating apparatus for gas burners." *Provisional protection only.*

FOX.
WILLIS.
22nd October 1859.

2416. WILLIAM FOX, of Amiens, in the Department of the Somme, in the Empire of France, Umbrella-Frame Manufacturer, and JAMES WILLIS, of Little Britain, in the City of London, Umbrella Manufacturer, for an invention for—"Improvements in the manufacture of umbrellas and parasols, part of which improvements is applicable to other purposes." *Letters Patent sealed.*

BROOMAN.
22nd October 1859.

2417. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"A method of preparing inoxidizable oils and fats to be employed as lubricating substances."—*A communication from abroad by Jules Roth, of Mulhouse, France.* *Letters Patent sealed.*

BROOKES.
22nd October 1859.

2418. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in machinery or apparatus for preparing wool and other fibrous materials."—*A communication from abroad by Messrs. Dombret and Dugnolle, of Valenciennes, and Potez, aîné, of St. Mandé, near Paris, in the Empire of France.* *Letters Patent sealed.*

BEARDMORE.
22nd October 1859.

2419. SEPTIMUS BEARDMORE, of No. 27, Albion Street, Hyde Park, London, Civil Engineer, for an invention for—"Improvements in electric telegraphs." *Provisional protection only.*

THOROLD.
22nd October 1859.

2420. WILLIAM THOROLD, of Norwich, Engineer, for an invention for—"Improvements in apparatus applied to locomotive engines for condensing steam." *Letters Patent sealed.*

DAHLKE.
22nd October 1859.

2421. JULIUS DAHLKE, of Providence Row, Finsbury, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in the preparation of charcoal and its application to the purification of water and the preservation of organic matters, and in apparatus connected therewith." *Provisional protection only.*

WRIGHTSON.
22nd October 1859.

2422. FRANCIS WRIGHTSON, of Birmingham, in the County of Warwick, Professor of Chemistry in Sydenham College, Birmingham, for an invention for—"Improvements in purifying coal gas and in utilizing compounds obtained in purifying coal gas." *Provisional protection only.*

CLERK.
THOMAS.
22nd October 1859.

2423. FRANCIS NORTH CLERK, of the firm of Peyton and Clerk, of Birmingham, in the County of Warwick, Edge Tool Manufacturers, and CHARLES THOMAS, of Birmingham, aforesaid, Foreman of Works, for an invention for—"Improvements in cleavers or choppers." *Letters Patent sealed.*

)OWIE.
)ctober 1859.

2424. ANDREW LINMERE DOWIE, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in gas burners and in pressure regulating apparatus for the same." *Provisional protection only.*

'OLDEN.
)ctober 1859.

2425. GEORGE HOLDEN, of Preston, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery for spinning cotton and other fibrous substances." *Provisional protection only.*

AURENT.
)ctober 1859.

2426. PIERRE MICHEL ALBERT LAURENT, Ex-Naval Officer, of Havre, Town in the French Empire, for an invention for—"Certain improvements in eye-glasses for optical instruments." *Provisional protection only.*

ERTRAND.
)ctober 1859.

2427. AUGUSTE CONSTANTIN BERTRAND, of Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of herbal cigarrettes." *Provisional protection only.*

ROOMAN.
)ctober 1859.

2428. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in day-light and other reflectors, and in the method of supporting lamp reflectors."—*A communication from abroad by Jean Boy, of Paris.* *Provisional protection only.*

ZPATRICK.
)ctober 1859.

2429. MATHEW FITZPATRICK, of 29, Boulevart St. Martin, Paris, Civil Engineer, for an invention for—"Apparatus to be applied to the prevention of accidents on railways, called 'parachoc.'" *Provisional protection only.*

SEAGER.
)ctober 1859.

2430. ROBERT SEAGER, of Peter Street, Ipswich, for an invention for—"Improvements in compounds of india rubber and gutta percha." *Letters Patent sealed.*

IEWTON.
)ctober 1859.

2431. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of ships or vessels."—*A communication from abroad by Rollin Germain, of the City of Buffalo, United States of America.* *Letters Patent sealed.*

IEWTON.
)ctober 1859.

2432. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in paddle wheels."—*A communication from abroad by Rollin Germain, of the City of Buffalo, United States of America.* *Letters Patent sealed.*

ROSSER.
)ctober 1859.

2433. HENRY SHEPHERD ROSSER, of No. 17, Upper Philimore Gardens, Kensington, in the County of Middlesex, for an invention for—"Improvements in electric telegraph cables and in the mode of obtaining signals." *Letters Patent sealed.*

REAVES.
)ctober 1859.

2434. HUGH GREAVES, of 5, Victoria Street, Westminster, in the County of Middlesex, and of West Hartlepool, in the County of Durham, Civil Engineer, for an invention for—"Improvements in moulding and casting gas, water and other pipes, sash weights and other articles, and in cleaning some of the same from the sand." *Letters Patent sealed.*

ANOUIL.
)ctober 1859.

2435. GERMAIN CANOUIL, of 93, Curtain Road, Shoreditch, in the County of Middlesex, Chemist, for an invention for—"New machinery for priming percussion caps without danger of explosion, also a new fulminate not hitherto employed." *Provisional protection only.*

DAY.
October 1859.

2436. WILLIAM CHARLES DAY, of the Strand, in the County of Middlesex, Military Outfitter, for an invention for—"Improvements in stockings and drawers and other articles of under clothing." *Letters Patent sealed.*

ATTHEWS.
October 1859.

2437. WILLIAM ANTHONY MATTHEWS, of Sheffield, in the County of York, Steel Manufacturer, for an invention for—"Improvements in springs." *Letters Patent sealed; no specification filed.*

NAPIER.
October 1859.

2438. JAMES MURDOCH NAPIER, of the York Roard, Lambeth, Engineer, for an invention for—"Improvements in printing machines." *Letters Patent sealed.*

ELLIS.
October 1859.

2439. EDWIN ELLIS, of St. Ann's Wells Road, Nottingham, for an invention for—"Improvements in the manufacture of lace and in apparatus employed therein." *Letters Patent sealed.*

HURRY.
October 1859.

2440. HENRY COLUMBUS HURRY, of the City of Worcester, Engineer, for an invention for—"Improved apparatus for applying or using magnetism or electro-magnetism as a motive power." *Provisional protection only.*

TEBBUTT. 25th October 1859.

2441. EDWARD SQUIRE TEBBUTT, of the firm of W. J. Windram and Co., of Leicester, Elastic Web Manufacturers, for an invention for—"An improved manufacture of elastic fabrics." *Letters Patent sealed.*

M'GLASHAN. 26th October 1859.

2442. ALEXANDER M'GLASHAN, of Coal Yard, Drury Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in refrigerators for cooling worts and other liquors." *Letters Patent sealed.*

CLARK. 26th October 1859.

2443. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the preparation and application of baths or bathing media and in apparatus employed therein."—*A communication from abroad by Emile Muller, of Paris, in the Empire of France, Civil Engineer.* *Letters Patent sealed.*

BOURCART. 26th October 1859.

2444. JEAN JACQUES BOURCART, of Guebwiller, Haut Rhin, France, but now residing in Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in mules for spinning." *Letters Patent sealed.*

KAY. 26th October 1859.

2445. JOHN ZUILL KAY, of Dundee, in the County of Forfar, North Britain, Gas Engineer, for an invention for—"Improvements in gas meters and in apparatus for maintaining or preserving the levels of liquids." *Letters Patent sealed.*

KENNEDY. 26th October 1859.

2446. WILLIAM WEMYSS KENNEDY, of Glasgow, in the County of Lanark, North Britain, Shirt Cutter, for an invention for—"Improvements in shirts." *Letters Patent sealed.*

PATERSON. 26th October 1859.

2447. JAMES HENRY PATERSON, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in shirting cloths and in shirts." *Provisional protection only.*

HACKWORTH. 26th October 1859.

2448. JOHN WESLEY HACKWORTH, of Priestgate Engine Works, Darlington, Engineer, for an invention for—"Improvements in dynamic valve gear applicable to locomotive, marine and other engines." *Letters Patent sealed.*

PRICHARD. 26th October 1859.

2449. JOHN LEWIS PRICHARD, of Dowlais, in the County of Glamorgan, Chemist, for an invention for—"A new method of relieving pain in the human body." *Letters Patent sealed.*

ARMOUR. 26th October 1859.

2450. JOHN ARMOUR, of Perceton Fire Clay Works Kilmarnock, North Britain, Manager, for an invention for—"Improvements in apparatus for measuring and for regulating supplies of solid and fluid substances in the preparation of mixtures or compounds." *Letters Patent sealed.*

WILSON. HACKER. 26th October 1859.

2451. CHARLES EDMUND WILSON, Manufacturer, and HENRY GEORGE HACKER, Warehouseman, both of Monkwell Street, in the City of London, for an invention for—"Improvements in machinery for the manufacture of chenille." *Letters Patent sealed.*

CHRISTY. 26th October 1859.

2452. RICHARD CHRISTY the younger, of Weston, in the County of Herts, Farmer, for an invention for—"Improvements in means or apparatus for securing the closing of doors." *Provisional protection only.*

WHITBY. DEMPSEY. 26th October 1859.

2453. TIMOTHY WHITBY, of Milbank Street, Westminster, and WILLIAM DEMPSEY, of Great George Street, Westminster, in the County of Middlesex, Civil Engineers, for an invention for—"Improvements in ordnance and fire arms." *Letters Patent sealed.*

ZACHERONI. 27th October 1859.

2454. IGNAZIO ZACHERONI, of Liverpool, in the County of Lancaster, Artist, for an invention for—"Improvements in electric telegraph cables for submarine and subterranean uses, and in submerging the same." *Provisional protection only.*

STEVENS. 27th October 1859.

2455. CHARLES STEVENS, of No. 1B, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A machine for scouring and polishing floors and decks of ships."—*A communication from abroad by Jean Jacques Monnié, of Paris, in the Empire of France.* *Letters Patent sealed.*

MICKLES. 27th October 1859.

2456. PHILO D. MICKLES, of Syracuse, State of New York, United States of America, for an invention for—"An automatic rail-road switch."—*A communication from Danforth Johnson, a person resident in Chicago, State of Illinois, United States.* *Provisional protection only.*

RASCOL.
27th October 1859.

2457. EUGÈNE HIPPOLYTE RASCOL, of 4, Brydges Street, Covent Garden, in the County of Middlesex, Gentleman, for an invention for—"A new implement for cleansing of the plates, dishes, and other table or kitchen utensils."—*A communication from Johanna Perry, a person residing abroad, 51, Rue Dareau, Gentilly, near Paris.*
Provisional protection only.

HODGE.
27th October 1859.

2458. PAUL RAPSEY HODGE, of No. 16, Chalcot Crescent, near Primrose Hill, in the County of Middlesex, Engineer, for an invention for—"Improvements in the process of brewing fermented liquors and in apparatus connected therewith, and in preparing and separating the materials, and the manner of using them in producing fermented liquors." *Letters Patent sealed.*

ORDISH.
27th October 1859.

2459. ROWLAND MASON ORDISH, Civil Engineer, of 18, Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in railway fastenings." *Letters Patent sealed.*

PHILLIPS.
BANNEHR.
27th October 1859.

2460. HENRY PHILLIPS, of Penhoe, in the County of Devon, Chemist, and JAMES BANNEHR, of Exeter, in the same County, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

BROOMAN.
27th October 1859.

2461. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the preparation of red coloring matters or dyes."—*A communication from abroad by Messrs. Renard Frères, of Lyons.* *Letters Patent sealed.*

BROOMAN.
27th October 1859.

2462. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improved threads for weaving and a machine for making the same, which is also applicable to the winding or coating of one thread with another."—*A communication from abroad by Alphonse Loiseau, of Bernay, France.* *Letters Patent sealed.*

COWAN.
27th October 1859.

2463. HENRY COWAN, of Boileau Lodge, Barnes, in the County of Surrey, Esquire, for an invention for—"An improvement in waistcoats and certain other articles of wearing apparel." *Provisional protection only.*

MITCHELL.
28th October 1859.

2464. AURELIUS BRUCE MITCHELL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved penholder."
Letters Patent sealed.

PLANTIER.
28th October 1859.

2465. JOSEPH PLANTIER, of Paris, France, Gentleman, for an invention for—"Improvements in brushes and brooms." *Provisional protection only.*

GREAVES.
28th October 1859.

2466. HUGH GREAVES, of 5, Victoria Street, Westminster, in the County of Middlesex, and of West Hartlepool, in the County of Durham, Civil Engineer, for an invention for—"Improvements in constructing the permanent ways of railways, and in preparing parts thereof to prevent oxidization." *Letters Patent sealed.*

DILLIES.
28th October 1859.

2467. DEÏLE DILLIES, of Roubaix, Department du Nord, in the Empire of France, Manufacturer, for an invention for—"Innovations in weaving-looms."
Provisional protection only.

HIGGINS.
28th October 1859.

2468. JAMES HIGGINS, of Salford, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for warping yarns or threads."—*A communication from abroad by Richard Garsed and Clayton Denn, of the City and County of Philadelphia, in the United States of America.*
Letters Patent sealed.

COLE.
28th October 1859.

2469. JAMES FERGUSON COLE, of Devonshire Street, in the County of Middlesex, Watch Maker, for an invention for—"Improvements in time-keepers."
Letters Patent sealed.

BARANOWSKI.
28th October 1859.

2470. JEAN JOSEPH BARANOWSKI, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in railway signal apparatuses."
Provisional protection only.

GHESQUIÈRE.
29th October 1859.

2471. GUSTAVE GHESQUIÈRE, of No. 11, Quai Conti, in the City of Paris, in the Empire of France, Gentleman, for an invention for—"A process to render gold and silver malleable and ductile." *Letters Patent sealed.*

MASCORD.
BONNER.
VINER.
29th October 1859.

2472. JOSEPH MASCORD, of Banbury, in the County of Oxford, Seedsman, JOSEPH BONNER, of the same place, Draper, and FREDERICK VINER, also of Banbury, Engineer, for an invention for—"Improved machinery or apparatus for cutting up and pulping or reducing vegetable and animal substances."
Provisional protection only.

LISTER.
WARBURTON.
29th October 1859.

2473. SAMUEL CUNLIFFE LISTER, of Manningham, and JAMES WARBURTON, of Addingham, Spinner, for an invention for—"Improvements in dyeing silk, cotton, china grass and similar vegetable fibre, and in preparing and spinning colored and mixed colored yarns from such fibres." *Letters Patent sealed.*

STANNET.
29th October 1859.

2474. CHARLES STANNET, of New Street, Covent Garden, in the County of Middlesex, Boot and Shoe Maker, for an invention for—"Improvements in apparatus used in the manufacture of boots and shoes or other coverings for the feet."
Letters Patent sealed.

MARGETSON.
29th October 1859.

2475. JOHN STEWART MARGETSON, of Cheapside, in the City of London, for an invention for—"Improvements in collars for gentlemen's, ladies', or children's wear."
Provisional protection only.

PALMER.
31st October 1859.

2476. CHRISTOPHER RICHARD NORRIS PALMER, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improved strike bells, air bells, and signal apparatus, applicable to carriages and other purposes specified."
Provisional protection NOT granted.

TURNER.
31st October 1859.

2477. JAMES ALFRED TURNER, of the City of Manchester, in the County of Lancaster, Paper Manufacture, for an invention for—"Improvements in rendering paper waterproof." *Letters Patent sealed.*

BROWN.
31st October 1859.

2478. ISAAC BROWN, of the City of Carlisle, Merchant, for an invention for—"Improvements in the treatment of growing crops." *Letters Patent sealed.*

NEWBY.
RAINÉ.
31st October 1859.

2479. THOMAS CAUTLEY NEWBY, of Welbeck Street, in the County of Middlesex, Publisher, and JULES ADOLPHE RAINÉ, of Wells Street, Gray's Inn Road, in the County of Middlesex, Gentleman, for an invention for—"Improvements in portable bedsteads and spring mattresses." *Provisional protection only.*

INGHAM.
COLLIER.
31st October 1859.

2480. JOHN INGHAM, of Halifax, in the County of York, Manufacturer, and GEORGE COLLIER, of the same place, Engineer, for an invention for—"Improvements in the manufacture of fabric of the character of that technically called 'camlet,' also in the winding of yarn employed in the production of such fabric, part of which improvements is applicable to other weavings." *Letters Patent sealed.*

BOLTON.
31st October 1859.

2481. JOHN BOLTON, of Halifax, in the County of York, Manufacturer, for an invention for—"Improvements in means or apparatus for winding thread or yarn onto shuttle bobbins or pirns, which improvements are also applicable in winding on to other bobbins or spools or tubes." *Letters Patent sealed.*

CHEVRIER.
31st October 1859.

2482. ANTOINE CHEVRIER, of No. 21, Rue du Faubourg St. Martin, in the City of Paris, in the Empire of France, Apothecary, for an invention for—"Neutralizing the smell and savour of all vegetable and animal substances without their being adulterated by the use of essences of spirits and aromatical products."
Letters Patent sealed.

BROOMAN.
31st October 1859.

2483. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Certain plastic compositions to be employed for building and decorative purposes and in lieu of marble, stone, brick, and cement."—*A communication from abroad by Lippmann Schneckenburger & Co., of Paris.* *Letters Patent sealed.*

CICHOWSKI.
31st October 1859.

2484. ROMAN CICHOWSKI, of Linow, in the Kingdom of Poland, Landed Proprietor and Agriculturalist, for an invention for—"Improvements in ploughs."
Letters Patent sealed; no specification filed.

HOLMES.
31st October 1859.

2485. JOSEPH HOLMES, of Pleystowe Capel, in the County of Surrey, Esquire, for an invention for—"An improved halter-block for stable purposes."
Letters Patent sealed.

PITMAN. 31st October 1859.

2486. JOHN TALBOT PITMAN, of the American & European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"Improvements in the construction of forges."—*A communication from abroad by Joseph H. Hyatt, of Peekskill, State of New York, United States of America.* *Letters Patent sealed.*

POHL. 31st October 1859.

2487. LUDWIG POHL, of the firm of Eduard Posen and Company, of Offenbach, in Germany, Manufacturers, for an invention for—"Improvements in fastenings for bags, purses and similar purposes." *Letters Patent sealed.*

READ. READ. 1st November 1859.

2488. CHARLES READ, of Birmingham, in the County of Warwick, Ironmonger, and ISAAC ALFRED READ, of Smethwick, near Birmingham, aforesaid, Draughtsman, for an invention for—"A new or improved tap or stopcock." *Provisional protection only.*

SPENCE. 1st November 1859.

2489. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"An instrument for taking and registering deep sea soundings."—*A communication from abroad by Thomas P. How, of Broadway, New York.* *Letters Patent sealed.*

NEWTON. 1st November 1859.

2490. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of and apparatus for condensing and cooling vapour and fluids."—*A communication from abroad by Ananias Smith, of Niagara Falls, in the United States of America.* *Letters Patent sealed.*

JONES. 1st November 1859.

2491. JOSIAH JONES, Junior, of Liverpool, for an invention for—"Improvements in ship building." *Letters Patent sealed.*

PERKIN. 1st November 1859.

2492. WILLIAM HENRY PERKIN, of King David Fort, St. George's in the East, for an invention for—"Improvements in the manufacture of coloring matters." *Letters Patent sealed; no specification filed.*

DE BARY. 1st November 1859.

2493. ROBERT DE BARY, of Finsbury Square, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for the manufacture of cigars."—*A communication from abroad by Julius De Bary, of Offenbach.* *Letters Patent sealed.*

BROWNE. 2nd November 1859.

2494. BENJAMIN BROWNE, of No. 52, King William Street, in the City of London, Civil Engineer and Patent Agent, for an invention for—"A self heating ironing apparatus."—*A communication from abroad by Charles Jean Eugene Baptiste Cailloüé, of Paris, Barrister.* *Provisional protection only.*

BUDDEN. 2nd November 1859.

2495. JOHN LEGGETT BUDDEN, Merchant, of 48, Fenchurch Street, in the City of London, for an invention for—"Improvements in forming and driving piles for the construction of piers, jetties, viaducts, bridges, or other works where piles are usually employed."—*A communication from abroad by Woodford Pilkington, Civil Engineer, of the Cape of Good Hope.* *Letters Patent sealed.*

HESS. 2nd November 1859.

2496. RICHARD HEINRICH HESS, of Newton Street, Hoxton, in the County of Middlesex, Engineer, for an invention for—"Improvements in gas burners." *Provisional protection only.*

TURNER. 3rd November 1859.

2497. JAMES ALFRED TURNER, of the City of Manchester, in the County of Lancaster, Paper Manufacturer, for an invention for—"Improvements in rendering paper waterproof." *Provisional protection only.*

LEEMING. RAMSDEN. 3rd November 1859.

2498. JAMES LEEMING, of Bradford, in the County of York, Machine Maker, and JOHN CARTER RAMSDEN, of the same place, Manufacturer, for an invention for—"Improvements in looms for weaving." *Letters Patent sealed.*

DELAVIER. 3rd November 1859.

2499. ISIDORE FRANÇOIS DELAVIER, of Paris, France, Merchant, for an invention for—"Improvements in coffee pots, tea pots, and other culinary or pharmaceutical vessels of the same nature." *Letters Patent sealed.*

WHITE. 3rd November 1859.

2500. GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the City of London, for an invention for—"A mechanical arrangement for steaming grain or other grits, in order to allow the bran better to separate from the flour."—*A communication from abroad by Mr. Leon Jean Emile Dupont, of Les Pins, France.* *Provisional protection only.*

BACON. 3rd November 1859.

2501. CHARLES BACON, of Edgware Road, in the County of Middlesex, Esquire, for an invention for—"Improvements in globes and shades for gas lights and oil or other lamps." *Letters Patent sealed.*

WILSON.
3rd November 1859.

2502. WILLIAM WILSON, of Newcastle-upon-Tyne, Hat Manufacturer, for an invention for—"Improvements in machinery for the manufacture of felted fabrics suitable for the bodies of hats, caps, and bonnets." *Provisional protection only.*

SIEMENS.
3rd November 1859.

2503. CHARLES WILLIAM SIEMENS, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in insulating electric telegraphic conductors, and in battery arrangements connected therewith."—*Partly a communication from abroad by Werner Siemens, residing at Berlin, in Prussia.* *Letters Patent sealed.*

HOWARD.
3rd November 1859.

2504, JOHN HOWARD, of Fenchurch Street, in the City of London, Merchant, for an invention for—"Improved machinery for moulding hollow bricks and tubular articles."—*A communication from abroad by M. Becherer and C. Kesseler, of Greiswald, in the Kingdom of Prussia.* *Letters Patent sealed.*

WEMYSS.
3rd November 1859.

2505. GEORGE WEMYSS, of Springwood Park, in the County of Roxburgh, North Britain, Gardener, for an invention for—"Improvements in ventilators." *Letters Patent sealed.*

BINCKES.
4th November 1859.

2506. ASPULL BINCKES, of Cornbury Place, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in optical instruments." *Provisional protection only.*

JUZET.
4th November 1859.

2507. ETIENNE JUZET, of 29, Boulevart St. Martin, Paris, in the Empire of France, Mechanician, for an invention for—"Improvements in lubricating apparatus." *Letters Patent sealed.*

BULLER.
4th November 1859.

2508. GEORGE NICHOLAS BULLER, of 28, Bartlett's Buildings, Holborn, Wholesale Jeweller, for an invention for—"An improved mode or method of ornamenting articles composed wholly or partially of jet." *Provisional protection only.*

BOOTHBY.
4th November 1859.

2509. AUGUST PETER BOOTHBY, of Dean Street, Soho, in the County of Middlesex, Travelling Bag Manufacturer, for an invention for—"Improvements in travelling and such like bags." *Letters Patent sealed.*

MAXWELL.
4th November 1859.

2510. JOSEPH ALEXANDER MAXWELL, of 53, Chancery Lane, in the County of Middlesex, Gentleman, for an invention for—"Improvements in hydraulic engines to act either alone or in combination with steam and steam engines." *Provisional protection only.*

KOCH.
4th November 1859.

2511. LOUIS KOCH, Engineer, of New York, in the United States of America, for an invention for—"A moving tread power." *Letters Patent sealed.*

HOLMES.
4th November 1859.

2512. FREDERICK HALE HOLMES, of Northfleet, in the County of Kent, Professor of Natural Philosophy, for an invention for—"Improvements in apparatus for transmitting light.' *Provisional protection only.*

BROOK.
4th November 1859.

2513. CHARLES BROOK, Junior, of Meltham Mill, in the County of York, Thread Manufacturer, for an invention for—"Improved arrangements and apparatus for folding, tieing and labelling hanks of yarn or thread." *Letters Patent sealed.*

NEWTON.
4th November 1859.

2514. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in type setting and distributing apparatus."—*A communication from abroad by Thomas Walker Gilmer, of Virginia, in the United States of America, Administrator of John Baker Gilmer deceased.* *Letters Patent sealed.*

CLARKE.
GEE.
4th November 1859.

2515. WILLIAM CLARKE, of Nottingham, Manufacturer, and JOSEPH GEE, of Lenton, in the County of Nottingham, Mechanic, for an invention for—"Improvements in the manufacture of looped fabrics." *Provisional protection only.*

HILL.
4th November 1859.

2516. WILLIAM HILL, of Combe Haye, near Bath, in the County of Somerset, for an invention for—"Improvements in lightning conductors." *Provisional protection only.*

BROOMAN.
4th November 1859.

2517. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in breech-loading ordnance and other fire-arms, and in projectiles to be used therewith."—*A communication from abroad by John Webster Cochran, of New York.* *Letters Patent sealed.*

CHESTERMAN. 4th November 1859.

2518. JAMES CHESTERMAN, of Sheffield, in the County of York, Manufacturer, for an invention for—"New and improved methods of, and furnace for heating, hardening, and tempering clock springs, watch springs, band saws, steel for dresses such as crinoline steel, and other like purposes." *Letters Patent sealed*

MEYER. 4th November 1859.

2519. JEAN GASPARD MEYER, of Paris, in the French Empire, Merchant, for an invention for—"The employment of the 'tacca pinatifida' as a substitute for straw now used in various manufactures." *Provisional protection only.*

MACKENZIE. 5th November 1859.

2520. COLIN MACKENZIE, of Stornoway, in the County of Ross, North Britain, Barrel Manufacturer, for an invention for—"Improvements in machinery or apparatus for cutting and dressing staves for casks, barrels and other wooden vessels." *Provisional protection only.*

JOY. 5th November 1859.

2521. DAVID JOY, of Strangeways Iron Works, Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for the manufacture of telegraphic cables."—*A communication from abroad by Charles de Bergue, residing at Barcelona, in the Kingdom of Spain.* *Provisional protection only.*

PICHLER. WIGLEY. 5th November 1859.

2522. FRANCIS PICHLER, of 162, Great Portland Street, Oxford Street, and HENRY JOHN WIGLEY, of 5, Gloucester Place, Gloucester Gate, Regent's Park, both in the County of Middlesex, for an invention for—"The arrangement and construction of wheeled carriages or other vehicles or machines in such manner that the occupant or occupants thereof may propel the same by alternating the weight of the person or persons riding." *Provisional protection only.*

CUCHE. 5th November 1859.

2523. EMILE ALEXANDRE CUCHE, of 29, Boulevart St. Martin, Paris, in the Empire of France, Civil Engineer, for an invention for—"Improvements in galvanizing metallic wires." *Provisional protection only.*

BOUSFIELD. 5th November 1859.

2524. GEORGE TOMLINSON BOUSFIELD, of Loughborough Park, Brixton, in the County of Surrey, for an invention for—"Improvements in machinery for grinding and polishing sheets of plate and other glass."—*A communication from abroad by J. J. Greenough, of Wall Street, New York.* *Letters Patent sealed.*

MCCALLUM WOODWARD. 5th November 1859.

2525. THOMAS WHITTAKER MCCALLUM, of Belper, in the County of Derby, Hosier, and LUKE WOODWARD, of the Town of Nottingham, Framesmith, for an invention for—"Improvements in framework knitting machinery." *Letters Patent sealed.*

MANNIX. 5th November 1859.

2526. WILLIAM MANNIX, of Wolverhampton, M.D., for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*

DIETENS. 7th November 1859.

2527. PETER DIETENS, of Brussels, in the Kingdom of Belgium, Manufacturer, for an invention for—"A system of letter-paper, letter-invoices, letter-circulars, prices-currents, memorandums, and other missives." *Provisional protection only.*

DOWIE. 7th November 1859.

2528. ANDREW LINMERE DOWIE, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in effecting communications or signalling between distant or distinct parts of railway trains." *Letters Patent sealed.*

CLARKE. 7th November 1859.

2529. JOHN ALGERNON CLARKE, of Long Sutton, in the County of Lincoln, Farmer, for an invention for—"Improvements in extracting seeds or stones from fruit." *Letters Patent sealed.*

PACEY. 7th November 1859.

2530. GEORGE PACEY, Coach Builder and Harness Manufacturer, of No. 2, Waterloo Street, and Upper Priory, Birmingham, for an invention for—"A rein handle and holder applicable for riding or driving either for single, double, or team reins." *Letters Patent sealed.*

CHARLTON. 7th November 1859.

2531. HENRY CHARLTON, of Blackfriars, Manchester, in the County of Lancaster, Callenderer and Finisher, for an invention for—"Certain improvements in the method of navigating steam ships or vessels, and in the apparatus connected therewith." *Letters Patent sealed.*

BARKER. 7th November 1859.

2532. HENRY BARKER, of Hastings, in the County of Sussex, Tobacco and Cigar Dealer, for an invention for—"An improvement in clay, meerschaum, and other pipes." *Letters Patent sealed.*

MELINE. 7th November 1859.

2533. GEORGE MELINE, of Lay St. Christophe, in the Department of the Meurthe, in the Empire of France, Gentleman, for an invention for—"Improvements in mills of whatever kind." *Provisional protection only.*

GRAFTON.
7th November 1859.

2534. HENRY GRAFTON, of Chancery Lane, in the County of Middlesex, Engineer, for an invention for—"Improvements in bell and other signal apparatus to dwelling houses and other places, which improvements are also applicable to knobs or handles and fastenings of doors and the like." *Provisional protection only.*

NEWTON.
7th November 1859.

2535. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in promoting or accelerating combustion in furnaces or fireplaces."—*A communication from abroad by Charles Joseph Leopold Maire, and Jean Baptiste Frédéric Jules Vallée, of Tours, in the Empire of France.* *Letters Patent sealed.*

TEMPLETON.
LAWSON.
7th November 1859.

2536. ARCHIBALD TEMPLETON, of No. 7, Skinner Street, in the City of London, and JOHN LAWSON, of Glasgow, for an invention for—"Improvements in the manufacture of chenille or like fabrics suitable to be used in woven and other ornamental piled fabrics." *Letters Patent sealed.*

POWELL.
8th November 1859.

2537. HENRY BUCKWORTH POWELL, of Foxleze Park, Lyndhurst, Hants, for an invention for—"The protection and prevention of fouling or injuring by foreign matters the screws, paddles, rudders, and stern posts of steam ships or other vessels." *Letters Patent sealed.*

LEARCH.
8th November 1859.

2538. ADOLPHE LEARCH, of Brussels, in the Kingdom of Belgium, Journalist, for an invention for—"An improved process of manufacturing embossed sheets or stuffs called embossed fictitious leather, for hangings and household furnitures."—*A communication from Henry Hendrycks, resident at St. Josse-Ten-Noode, near Brussels.* *Letters Patent sealed.*

GREEN.
8th November 1859.

2539. CHARLES GREEN, of Birmingham, for an invention for—"Improvements in the manufacture of tubes suitable for locomotive and other steam boilers." *Letters Patent sealed.*

THOMSON.
8th November 1859.

2540. JOHN THOMSON, of Dundee, in the County of Forfar, Manufacturer, for an invention for—"Improvements in the manufacture or production of Brussels and velvet pile carpet fabrics and hearth rugs." *Letters Patent sealed.*

JOHNSON.
8th November 1859.

2541. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in 'passe-partouts' or mounts for pictures."—*A communication from abroad by Auguste Pinard, of Paris, in the Empire of France, Manufacturer.* *Provisional protection only.*

JOHNSON.
8th November 1859.

2542. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in watches or timekeepers."—*A communication from abroad by Merrick Price, of Philadelphia, in the United States of America.* *Letters Patent sealed.*

HADFIELD.
8th November 1859.

2543. GEORGE HADFIELD, of Carlisle, in the County of Cumberland, Varnish Manufacturer, for an invention for—"Improved machinery for cutting staves for casks and barrels." *Letters Patent sealed.*

BOTTOM.
8th November 1859.

2544. THOMAS SAMUEL BOTTOM, of Park Terrace, Old Ford, in the County of Middlesex, Chenille Manufacturer, for an invention for—"Improvements in the manufacture of chenille." *Provisional protection only.*

CLARK.
8th November 1859.

2545. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A compound applicable for the manufacture of manure, the preservation and disinfection of organic matters, and for other purposes."—*A communication from abroad by Mr. Victor Corne, of Boulevart St. Martin, Paris.* *Letters Patent sealed.*

HAMER.
9th November 1859.

2546. JOB HAMER, of Longsight, in the Parish of Manchester, and County of Lancaster, Mercantile Clerk, for an invention for—"An improved material for insulating the wires of electric telegraphs, for lining articles of dress, for covering, clothing, casing, or lining steam boilers, pipes, cylinders, and other vessels, conduits, or chambers, and for other similar purposes to which the said material is or may be applicable as a non-conductor for preventing or diminishing the transmission of heat or of the electric fluid." *Letters Patent sealed.*

WHITE. 9th November 1859.

2547. GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the City of London, for an invention for—"Improvements in the manufacture of endless leather bands, straps or belts for driving machinery, and in apparatus for effecting the same."—*A communication from abroad by Mr. Eugène Scellos, of Rue Popincourt, Paris.* *Letters Patent sealed.*

FULTON. 9th November 1859.

2548. DAVID FULTON, of Glasgow, in the County of Lanark, North Britain, Engraver to Calico Printers, for an invention for—"Improvements in cylinders or rollers for printing and other purposes." *Provisional protection only.*

MENNONS. 9th November 1859.

2549. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"An improved means of destroying insects in grain and other organic matters."—*A communication from Louis Poret, residing at Mans, (Depart. de la Sarthe, France).* *Provisional protection only.*

SPILL. SPILL. 9th November 1859.

2550. GEORGE SPILL, and DANIEL SPILL, both of Stepney Green, in the County of Middlesex, Manufacturers, for an invention for—"An improvement in the manufacture of bands for driving machinery and for various other purposes." *Letters Patent sealed.*

DALES. 9th November 1859.

2551. JOHN DALES, of 11 and 12, Gresham House, Old Broad Street, in the City of London, for an invention for—"Improvements in applying deodorizing fluids to sewers and other receptacles of sewage." *Letters Patent sealed.*

CLARK. 9th November 1859.

2552. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the construction and application of electric telegraph wires or conductors."—*A communication from abroad by Mr. E. D. Rosencrantz, of New York, United States of America.* *Letters Patent sealed.*

HUGHES. 10th November 1859.

2553. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in railway breaks, also applicable for arresting the rotary motion of wheels and cylindrical bodies in general."—*A communication from abroad by Jules Clément, Gentleman, residing at No. 17, Rue Tronchet, Paris, in the Empire of France.* *Letters Patent sealed.*

EDWARDS. WRIGHT. 10th November 1859.

2554. JOHN EDWARDS, of 77, Aldermanbury, in the City of London, and JOHN SKIRROW WRIGHT, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of buttons." *Letters Patent sealed.*

BROOMAN. 10th November 1859.

2555. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in mills or apparatuses for extracting oil from seeds and for other purposes."—*A communication from abroad by C. S. Francis, of Calcutta.* *Letters Patent sealed.*

TENWICK. 10th November 1859.

2556. JOHN TENWICK, of Clarendon Street (Albion Foundry), Portsmouth, Hampshire, for an invention for—"Improvements in the construction of street gutters." *Letters Patent sealed.*

MELHUISH. 10th November 1859.

2557. ARTHUR JAMES MELHUISH, of Holborn Bars, and also of Bowater Place, Blackheath, Optician, for an invention for—"Improvements in the construction of cameras for obtaining photographic pictures." *Letters Patent sealed.*

EVANS. EVANS. EVANS. 10th November 1859.

2558. SAMUEL EVANS, WALTER EVANS, and HENRY EVANS, of Derby, in the County of Derby, Cotton Manufacturers, for an invention for—"Improvements in polishing thread and yarn, and in machinery to be employed for that purpose." *Letters Patent sealed.*

SEYMOUR. 10th November 1859.

2559. GEORGE SEYMOUR, of 116, Fenchurch Street, in the City of London, for an invention for—"Improvements in insulating and protecting electric telegraph conductors." *Letters Patent sealed.*

FLETCHER. 10th November 1859.

2560. WILLIAM FLETCHER, of Kilburn, in the County of Derby, Framework Knitter, for an invention for—"Improvements in machinery for making looped fabrics." *Letters Patent sealed.*

DAY.
10th November 1859.

2561. WILLIAM DAY, Builder, of Burton Latimer, near Wellingborough, in the County of Northampton, for an invention for—"Certain improvements in propelling vessels, which said invention is also applicable for converting the force of the wind into a motive power to be used in any convenient way either for stationary or moveable purposes." *Provisional protection only.*

JONES.
11th November 1859.

2562. FREDERICK DE CASTRO JONES, of 29, Tavistock Street, Covent Garden, in the County of Middlesex, for an invention for—"A weaver's loom with combs opened at the summit and with moveable floating chains."—*A communication from abroad by Paul Gadrat, of 48bis, Rue Basse du Rempart, Paris.* *Letters Patent sealed.*

BLINKHORN.
11th November 1859.

2563. THOMAS BLINKHORN, of Spalding, in the County of Lincoln, Engineer, for an invention for—"Improvements in pumps." *Letters Patent sealed.*

BROOMAN.
11th November 1859.

2564. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"The preparation of a salt, and means of combining, mixing, or applying the same to render fabrics, pulp, wood, oil, and other substances uninflammable."—*A communication from abroad by Messrs. Demangeot & Co., of Paris.* *Letters Patent sealed.*

BROOMAN.
11th November 1859.

2565. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved method of preparing plates and cylinders for printing from."—*A communication from abroad by Jules Michel Isidore Melotte and Charles Jules Thiesset, of Paris.*
Provisional protection only.

JACQUELAIN.
11th November 1859.

2566. AUGUSTIN JACQUELAIN, of Paris, in the French Empire, Chemist, for an invention for—"Improvements in the manufacture of carbon and in apparatus employed therein." *Letters Patent sealed.*

LANSDALE.
12th November 1859.

2567. RICHARD LANSDALE, of Pendleton, near Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for washing and cleansing fabrics, which improvements are also applicable to churning."
Letters Patent sealed.

BURGESS.
12th November 1859.

2568. WILLIAM BURGESS, of the firm of Burgess and Key, of Newgate Street, in the City of London, Agricultural Implement Makers, for an invention for—"An improvement in mowing and reaping machines." *Letters Patent sealed.*

SCOTT.
12th November 1859.

2569. JOHN SCOTT, of Sunderland, in the County of Durham, Anchor Smith, for an invention for—"An improvement in anchors." *Letters Patent sealed.*

VICKERS.
12th November 1859.

2570. ARCHIBALD VICKERS, of the City of Bristol, Cotton Spinner, for an invention for—"A method of opening and shutting two or four gates or doors simultaneously, and for fastening the same when either open or shut, applicable to railway crossings and other purposes." *Letters Patent sealed.*

NORRINGTON.
12th November 1859.

2571. CHARLES NORRINGTON, of Green Bank, Plymouth, Merchant, for an invention for—"Improvements in the protection of ships or vessels, forts or batteries from cannon shot, shell, or any other projectile." *Provisional protection only.*

HOWSON.
12th November 1859.

2572. RICHARD HOWSON, of the City of York, Engineer, for an invention for—"Improvements in bells and gongs and in their manufacture."
Provisional protection only.

BURGESS-BURGESS.
12th November 1859.

2573. ELIZABETH ANN SELLON BURGESS-BURGESS, of No. 107, Strand, in the County of Middlesex, for an invention for—"Improvements in the preparation of anchovies." *Letters Patent sealed.*

MENNONS.
14th November 1859.

2574. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for—"Improved apparatuses for the concentration, distribution, and application of the heat evolved by gas, oil and other lamps."—*A communication from Henri Auguste D'Arbel, Senr., a person resident at Paris.*
Complete specification; Letters Patent sealed.

GRAHAM.
14th November 1859.

2575. PETER GRAHAM, of Oxford Street, in the County of Middlesex, for an invention for—"Improvements in machinery or apparatus for cutting wood."
Provisional protection only.

APPLEGATH. 14th November 1859.

2576. AUGUSTUS APPLEGATH, of Dartford, in the County of Kent, Engineer, for an invention for—"Improvements in surface block printing." *Letters Patent sealed.*

MADIN. 14th November 1859.

2577. JOHN MADIN, of Fitzwilliam Street, Sheffield, in the County of York, Contractor, for an invention for—"Improvements in furnaces and appliances connected therewith for hardening and tempering crinoline or sheet steel, and measuring the same." *Letters Patent sealed.*

WALWORTH. HARROWBY. 14th November 1859.

2578. JAMES WALWORTH, and ROBERT HARROWBY, of Bradford, in the County of York, Machine Makers, for an invention for—"Improvements in smut machines or corn screens." *Letters Patent sealed.*

GOLDBERG. GOLDBERG. 14th November 1859.

2579. JOSEPH and GUSTAV GOLDBERG, both of Manchester, in the County of Lancaster, Manufacturers, for an invention for—"Certain improvements in the construction of purses or 'porte-monnaies,' and in an improved lock or fastening applicable to purses, bags, or other similar receptacles." *Provisional protection only.*

ARROTT. 14th November 1859.

2580. ALEXANDER ROBERTSON ARROTT, of Saint Helen's, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of carbonate of soda." *Provisional protection only.*

BROOKS. 14th November 1859.

2581. CHARLES HENRY BROOKS, of Great George Street, in the City of Westminster, Engineer, for an invention for—"Improvements in apparatuses for paying out and hauling in telegraph cables." *Letters Patent sealed.*

HOLGATE. HENDERSON. 14th November 1859.

2582. JAMES HOLGATE, of 33, Great Dover Street, in the County of Surrey, Army Contractor, and JOHN HENDERSON, of Ramsgate, in the County of Kent, Engineer, for an invention for—"Improvements in locomotive engines, partly applicable to other steam engines." *Provisional protection only.*

DANIELL. 14th November 1859.

2583. HENRY JOHN DANIELL, of Donnington Park, in the County of Leicester, late Colonel in the Coldstream Guards, for an invention for—"Improvements in the construction of breech loading fire arms." *Letters Patent sealed.*

WARD. 15th November 1859.

2584. WILLIAM HENRY WARD, of the City of Auburn, in the County of Cayuga, and State of New York, one of the United States of North America, for an invention for—"Improvements in wheels for railway engines and carriages." *Letters Patent sealed.*

WARD. 15th November 1859.

2585. WILLIAM HENRY WARD, of the City of Auburn, in the County of Cayuga, and State of New York, one of the United States of North America, for an invention for—"An improved turn-table for railways and other purposes." *Letters Patent sealed.*

BORLASE. 15th November 1859.

2586. EDWARD BORLASE, of Allenheads, Haydon Bridge, in the County of Northumberland, Mining Engineer, for an invention for—"Improved apparatus for separating metals and metallic ores when mingled with other substances in the state of slime." *Letters P atent sealed*

DONALD. SMITH. 15th November 1859.

2587. JAMES DONALD, Engineer, and PETER SMITH, Foreman Engineer, both of Johnstone, in the County of Renfrew, North Britain, for an invention for—"Improvements in apparatus for raising and for extracting liquids." *Letters Patent sealed.*

CHALMERS. 15th November 1859.

2588. CHARLES CHALMERS, of Merchiston Castle Bank, Morningside, Edinburgh, in the County of Mid Lothian, North Britain, Gentleman, for an invention for—"Improvements in gas stoves for heating buildings, apartments and other similar places." *Letters Patent sealed.*

ELLIOTT. 15th November 1859.

2589. WILLIAM ELLIOTT, of Norwich, in the County of Norfolk, Engineer, for an invention for—"An improved method of raising water and other liquids." *Provisional protection only.*

ALVEY. 15th November 1859.

2590. CHARLES PEWTRESS ALVEY, of Commerce Place, Brixton Road, in the County of Surrey, for an invention for—"Improved machinery or apparatus for the manufacture of envelopes." *Letters Patent sealed.*

WARD. 15th November 1859.

2591. WILLIAM HENRY WARD, of the City of Auburn, in the County Cayuga, and State of New York, one of the United States of North America, for an invention for—"Improvements in tanning hides and skins." *Provisional protection only.*

WILKINS. 15th November 1859.

2592. WILLIAM WILKINS, of Banbury, in the County of Oxford, Builder, for an invention for—"A 'ridge trestle' or apparatus which may be employed on the ridges of buildings to support persons and planking." *Letters Patent sealed.*

NEWTON. 15th November 1859.

2593. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the manufacture of hose or flexible pipe."—*A communication from abroad by Nehemiah Hunt, of Boston, in the United States of America.* *Letters Patent sealed.*

PERKIN. 15th November 1859.

2594. THOMAS DIX PERKIN, of King David Fort, St. George's in the East, in the County of Middlesex, for an invention for —"Improvements in the manufacture of coloring matters."—*A communication from abroad by Rudolph Knosp, of Stutgart.* *Letters Patent sealed.*

GRAHAM. 15th November 1859.

2595. JAMES GRAHAM, of Warrington Junction, Lancashire, for an invention for —"Improvements in treating and applying products obtained when galvanizing iron." *Letters Patent sealed.*

GREEN. 16th November 1859.

2596. CHARLES GREEN, of Winnington, near Northwich, in the County of Chester, Gentleman, for an invention for—"Improvement in the method of applying heat in the manufacture and drying of salt." *Provisional protection only.*

BAKER. 16th November 1859.

2597. WHITMORE BAKER, of Downham, in the County of Norfolk, Surgeon Dentist, for an invention for—"Apparatus to facilitate the delivery of coins for the giving of change and the like." *Letters Patent sealed.*

JOHNSON. 16th November 1859.

2598. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in gas burners."—*A communication from abroad by George Mill, of Toronto, Canada West.* *Provisional protection only.*

WHITE. 16th November 1859.

2599. ROBERT WHITE, of Edinburgh, in the County of Mid Lothian, North Britain, Writer to the Signet, for an invention for—"Improvements in shirts." *Letters Patent sealed.*

GREENWOOD. BATLEY. 16th November 1859.

2600. THOMAS GREENWOOD, and JOHN BATLEY, of Leeds, in the County of York, Machinists, for an invention for—"Improvements in the construction of the beds of lathes and the tables of planing machines." *Letters Patent sealed.*

TAYLOR. 16th November 1859.

2601. GEORGE TAYLOR, of the firm of Taylor Brothers and Company, of Clarence Iron Works, Leeds, in the County of York, Iron Master, for an invention for—"An improvement in the mode of manufacturing wrought iron crank axles." *Letters Patent sealed.*

BURROW. 16th November 1859.

2602. JAMES BURROW, of Ashford Parsonage, Bakewell, Clerk, for an invention for—"Improvements in umbrellas and parasols." *Provisional protection only.*

WARD. BURMAN. 16th November 1859.

2603. JAMES WARD, Truss Maker, and HENRY BURMAN, Brickmaker, both of Stratford-on-Avon, in the County of Warwick, for an invention for—"Improvements in machinery for making bricks and tiles and for moulding peat and plastic substances." *Letters Patent sealed.*

DRIEU. LEGEAY. 17th November 1859.

2604. JEROME ARDRÉ DRIEU, and AUGUSTE LEGEAY, of No. 18, Welbeck Street, Cavendish Square, London, in the County of Middlesex, for an invention for—"A tissue being a substitute for leather, mill-board, and papier-maché." *Letters Patent sealed.*

WHITE. 17th November 1859.

2605. ISAAC WHITE, of Nailsea, in the County of Somerset, Glass Manufacturer, for an invention for—"Improvements in glass furnaces." *Provisional protection only.*

JONES. 17th November 1859.

2606. DAVID JONES, of Dartmouth Street, Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in metallic casks." *Provisional protection only.*

LAMING. 17th November 1859.

2607. RICHARD LAMING, of Clifton Villas, Maida Hill West, in the County of Middlesex, for an invention for—"Improvements in obtaining alkalies and alkaline compounds." *Letters Patent sealed.*

ROBINSON. 17th November 1859.

2608. THOMAS ROBINSON, of St. Helen's, Lancashire, for an invention for—"Improvements in steam engines." *Letters Patent sealed.*

JULLION. PIRIE. 17th November 1859.

2609. JOHN LOUIS JULLION, and GORDON PIRIE, both of Stoneywood Works, Aberdeen, North Britain, Paper Makers, for an invention for—"An improvement in the manufacture of paper." *Letters Patent sealed.*

MCKENZIE. WENTWORTH. 17th November 1859.

2610. JAMES MCKENZIE, of 16, St. Martin's le Grand, in the City of London, and STEPHEN THOMAS WENTWORTH, of the same place, Gas Engineers, for an invention for—"Improvements in breech loading fire arms." *Letters Patent sealed.*

BRIERLEY. 18th November 1859.

2611. JOHN HENRY BRIERLEY, Small Ware Manufacturer, residing at Nineteen, Milton Place, Halifax, Yorkshire, for an invention for—"A belt or band fastener." *Provisional protection only.*

GOSSAGE. 18th November 1859.

2612. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Chemist, for an invention for—"Improvements in the manufacture of carbonate of soda." *Letters Patent sealed.*

PINCHBECK. 18th November 1859.

2613. JAMES PINCHBECK, of Camden Street, Islington, in the County of Middlesex, for an invention for—"Improvements in consumer's compensating gas meters, which are partly applicable to ordinary consumers' meters." *Letters Patent sealed.*

WILLCOCK. 19th November 1859.

2614. JOSEPH WILLCOCK, of 89, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the construction and arrangement of the boiler and working parts of steam fire engines, parts of which are applicable to engines for other purposes."—*A communication from abroad by Joseph G. E. Larned, of Brooklyn, State of New York, United States of America.* *Complete specification; Letters Patent sealed.*

CORBETT. 19th November 1859.

2615. SAMUEL CORBETT, of Wellington, in the County of Salop, Agricultural Implement Manufacturer, for an invention for—"An improvement or improvements in pulpers for pulping food for cattle." *Letters Patent sealed.*

CLARK. 19th November 1859.

2616. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the preservation of animal and vegetable matters."—*A communication from abroad by Louis Joseph Frederic Marguerite, of Paris, Chemist.* *Provisional protection only.*

BLINKHORN. 19th November 1859.

2617. WILLIAM BLINKHORN, of Sutton, near St. Helen's, in the County of Lancaster, Manager of the London and Manchester Glass Company, for an invention for—"The novel application of certain materials to the manufacture of bricks, quarries, or tiles to be employed principally in the construction of furnaces as 'fire-bricks.'" *Letters Patent sealed.*

KNIGHT. 9th November 1859.

2618. JOHN KNIGHT, of Newton Heath, near the City of Manchester, Manager, for an invention for—"Certain improvements in or applicable to looms for weaving, part of which is applicable to lubricating axles and bearings for other purposes." *Letters Patent sealed.*

BARLOW. HAMILTON. 19th November 1859.

2619. EDWARD BARLOW, of the firm of Messrs. Dobson and Barlow, Machine Makers, of Bolton-le-Moors, in the County of Lancaster, and FRANCIS HAMILTON, of the same place, Manager, for an invention for—"Certain improvements in carding engines." *Letters Patent sealed.*

LE PONTOIS. 19th November 1859.

2620. AUGUSTE HONORÉ LE PONTOIS, of Lorient, Town in the French Empire, Merchant, for an invention for—"Improvements in machines for distributing seed and manure." *Letters Patent sealed.*

BANCROFT. 19th November 1859.

2621. JOHN BANCROFT, of Halifax, in the County of York, for an invention for—"Improvements in the manufacture of fabrics adapted to be used for curtains, coverings of furniture, table covers, and such like uses." *Letters Patent sealed; no specification filed.*

BOSC. 19th November 1859.

2622. CHARLES BOSC, of 2, Rue Ste. Appoline, Paris, France, and of 45, Essex Street, Strand, London, Merchant, for an invention for—"The manufacture of artificial marbles." *Provisional protection only.*

GODCHAUX. 19th November 1859.

2623. AUGUSTE GODCHAUX, Editor, of Paris (Empire of France), and of 45, Essex Street, Strand, London, for an invention for—"Improvements in the mode of printing forms or models or copies of penmanship and designs on paper and other fabrics." *Letters Patent sealed.*

PETRIE.
LORD.
19th November 1859.

2624. JOHN PETRIE, Junior, of Rochdale, in the County of Lancaster, Machine Maker, and JOHN LORD, of Manchester, in the said County, Manufacturer, for an invention for—"Improvements in machinery or apparatus for drying rags, wool, and other fibrous materials." *Letters Patent sealed.*

NEWTON.
19th November 1859.

2625. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the mode of and machinery for drying cloths."—*A communication from abroad by Bezaleel, Sexton, of East Windsor, in the County of Hartford, and State of Connecticut, United States of America.* *Provisional protection only.*

HOLLINGSWORTH.
19th November 1859.

2626. JEHU HOLLINGSWORTH, of Cecil Street, Strand, in the City of Westminster, Gentleman, for an invention for—"Improvements in the mode of and machinery for cutting irregular and other forms."—*Partly a communication from abroad by Charles P. Bailey, of Zanesville, Ohio, United States of America.* *Provisional protection only.*

LAIDLAW.
19th November 1859.

2627. GEORGE LAIDLAW, of Glasgow, in the County of Lanark, North Britain, Hat Manufacturer, for an invention for—"Improvements in hats and other coverings for the head." *Letters Patent sealed.*

NAYLOR.
CROSSLEY.
19th November 1859.

2628. HENRY NAYLOR, Twister, and WILLIAM CROSSLEY, Manufacturer, both of Calder Vale, near Todmorden, in the County of Lancaster, for an invention for—"Improvements in 'pickers' used in looms for weaving." *Letters Patent sealed.*

WEBSTER.
21st November 1859.

2629. JAMES WEBSTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"An improvement or improvements in pressure and vacuum gauges." *Provisional protection only.*

JOCHEM.
21st November 1859.

2630. PIERRE JOCHEM, of Paris, France, Gentleman, for an invention for—"Improvements in brakes for railway and other carriages." *Provisional protection only.*

WHITTLE.
21st November 1859.

2331. WILLIAM WHITTLE, of Smethwick, near Birmingham, in the County of Warwick, Mechanical Engineer, for an invention for—"Improvements in the manufacture of nails and in machinery to be used in the said manufacture." *Letters Patent sealed.*

COWAN.
21st November 1859.

2632. JOSEPH COWAN, of Liverpool, in the County of Lancaster, Cabinet Maker, for an invention for—"Improvements in 'bracing' or connecting the angles or corners of chairs and other like articles of cabinet-furniture." *Letters Patent sealed.*

NEWTON.
21st November 1859.

2633. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved machine for moulding and pressing bricks."—*A communication from abroad by John Williamson Crary, of Pensacola, County of Escambia, and State of Florida, United States of America.* *Letters Patent sealed.*

CLAUS.
21st November 1859.

2634. CHARLES FREDERICK CLAUS, Chemist, of Fearnhead, near Warrington, in the County of Lancaster, for an invention for—"Improvements in tanning." *Provisional protection NOT granted.*

LENOX.
21st November 1859.

2635. GEORGE WILLIAM LENOX, of Billiter Square, in the City of London, for an invention for—"Improvements in the manufacture of ships' blocks." *Letters Patent sealed.*

APSEY.
BUCKWELL.
21st November 1859.

2636. JOSEPH APSEY, of Cornwall Road, Lambeth, in the County of Surrey, Engineer, and WILLIAM GEORGE BUCKWELL, of the Phœnix Stone Works, East Greenwich, in the County of Kent, Engineer, for an invention for—"Improvements in boiler and other furnaces smoke consuming and steam generating." *Provisional protection only.*

PITMAN.
21st November 1859.

2637. JOHN TALBOT PITMAN, of the American and European Patent Offices, No. 67, Gracechurch Street, London, for an invention for—"An improved method of curing india-rubber or gutta percha compounds."—*A communication from abroad by Asahel Knowlton Eaton, of New York City, in the State of New York, one of the United States of America.* *Letters Patent sealed.*

HUGHES. November 1859.

2638. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in weaving silk and other materials and in the machinery or apparatus employed therein."—*A communication from abroad by Horace Verzier, Manufacturer, residing at Lyon, in the Empire of France.* *Letters Patent sealed.*

AMSDEN. November 1859.

2639. BENJAMIN AMSDEN, of St. Alban's, in the County of Hertfordshire, Straw Hat Manufacturer, for an invention for—"Improvements in the manufacture of straw and other descriptions of hats and bonnets." *Letters Patent sealed.*

SHAND. ROWLEY. November 1859.

2640. JAMES SHAND, of 245, Blackfriars Road, in the County of Surry, Engineer, and JOHN ROWLEY, of 3, St. George's Road, Notting Hill, in the County of Middlesex, Gentleman, for an invention for—"Improvements ir fire. engines, part of which improvements are applicable to other pumps." *Provisional protection only.*

WHITE. November 1859.

2641. GEORGE WHITE, of 34, Dowgate Hill, Cannon Street, in the City of London, for an invention for—"Improvements in gloves."—*A communication from abroad by Mr. Emmanuel Escoubé, of Toulouse, France. Provisional protection only.*

MARCHAND. MARCHAND. MARCHAND. November 1859.

2642. PIERRE MARCHAND, EMILE MARCHAND, and JOSSE MARCHAND, of Dunkirk, France, trading under the name of Pierre Marchand Brothers, for an invention for—"Improvements in refining lamp oil made from oleaginous seed." *Letters Patent sealed; no specification filed.*

DAFT. November 1859.

2643. THOMAS BARNABAS DAFT, of Tottenham, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in coating sheathing metal." *Letters Patent sealed.*

NEWTON. November 1859.

2644. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in obtaining compensation for the effects of changes of temperature in time-keepers."—*A communication from abroad by Henry Boehm James, of Trenton, in the County of Mercer, and State of New Jersey, United States of America.* *Letters Patent sealed.*

HILL. November 1859.

2645. CHARLES GREY HILL, of Commerce Square, High Pavement, in the Town and County of the Town of Nottingham, Lace Manufacturer, for an invention for—"An improved goffering machine together with the apparatus connected therewith." *Letters Patent sealed.*

MUSHET. November 1859.

2646. ROBERT MUSHET, of Coleford, in the County of Gloucester, Metallurgist, for an invention for—"An improvement or improvements in the manufacture of iron and steel." *Letters Patent sealed.*

WARD. November 1859.

2647. WILLIAM HENRY WARD, of the City of Auburn, in the County of Cayuga, and State of New York, one of the United States of North America, for an invention for—"A system of signal flags." *Letters Patent sealed.*

WARD. November 1859.

2648. WILLIAM HENRY WARD, of the City of Auburn, in the County of Cayuga, and State of New York, one of the United States of North America, for an invention for—"Improved signal lanterns." *Letters Patent sealed.*

HUGHES. November 1859.

2649. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in the manufacture of a certain substance to supersede blasting powder."—*A communication from abroad by Nicholas Rave, the elder, of Curegham, near Brussels, in the Kingdom of Belgium.* *Letters Patent sealed.*

KEATES. November 1859.

2650. WILLIAM KEATES, of Liverpool, in the County of Lancaster, Copper and Lead Smelter, for—"An improved mode of manufacturing or forming the foundation or body of compound cylinders used for printing or embossing fabrics." *Letters Patent sealed.*

HUGHES. November 1859.

2651. EDWARD THOMAS HUGHES, of the firm of Hughes & Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"An improved chemical combination to supersede blasting powder."—*A communication from abroad by Nicholas Rave, the elder, of Curegham, near Brussels, in the Kingdom of Belgium.* *Letters Patent sealed.*

SMITH.
23rd November 1859.

2652. JOSIAH TIMMIS SMITH, of Birmingham, in the County of Warwick, Engineer, for an invention for — "An improvement or improvements in heating, puddling and other reverberatory furnaces used in the manufacture of iron."
Provisional protection only.

BAGSTER.
23rd November 1859.

2653. BENJAMIN BAGSTER, of King's Road, Gray's Inn, London, in the County of Middlesex, Printer and Publisher, for an invention for—"Improvements in means or apparatus for giving surface finish to paper, which improvements are applicable to copper-plate and other printing, as also to embossing."
Letters Patent sealed.

EASTMAN.
23rd November 1859.

2654. THOMAS EASTMAN, R.N., of Southsea, in the County of Hants, Naval Instructor, for an invention for — "Improved means of raising the blades of screws employed to propel ships, and apparatus for getting at such screws, and for performing other operations under water." *Provisional protection only.*

LISTER.
23rd November 1859.

2655. THOMAS LISTER, of Sheepbridge Iron Works, Chesterfield, in the County of Derby, Engineer, for an invention for — "Improvements in the construction of sanatory privies and water closets, part of which improvements is also applicable as a tap for drawing off liquids." *Letters Patent sealed.*

KNOWLES.
23rd November 1859.

2656. JOHN KNOWLES, Junior, of Saint Helen's, in the County of Lancaster, Mining Engineer, for an invention for—"An improved apparatus for the prevention of accidents in winding from mines, which apparatus is also applicable for other similar purposes." *Provisional protection only.*

PRESTON.
GARRETT.
24th November 1859.

2657. FRANCIS PRESTON, of the City of Manchester, Mechanical Engineer, and HENRY WILLIAM GARRETT, of Salford, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in the construction of cartridges."
Letters Patent sealed

LANGFORD.
24th November 1859.

2658. JOHN LANGFORD, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in inkstands and in combining with inkstands instruments for holding and damping stamps, labels, and other articles."
Provisional protection only.

MANIECE.
24th November 1859.

2659. WILLIAM CHRISTOPHER MANIECE, of the City of Manchester, in the County of Lancaster, Salesman, for an invention for — "Improvements in cop tubes used in machinery for spinning fibrous substances." *Letters Patent sealed.*

PRINCE.
24th November 1859.

2660. FREDERIC PRINCE, of Hove, in the County of Sussex, for an invention for—"Improved apparatus for reducing the resistance of the atmosphere to the progress of railway trains." *Provisional protection only.*

FYFE.
24th November 1859.

2661. JAMES FYFE, of Greenock, in the County of Renfrew, North Britain, Brassfounder, for an invention for — "Improvements in apparatus for regulating and adjusting the flow and pressure of liquids." *Letters Patent sealed.*

EASSIE.
24th November 1859.

2662. WILLIAM EASSIE, of the firm of William Eassie & Sons, of High Orchard, in the City of Gloucester, Timber Merchants and Contractors, for an invention for —"An improved joint for boarding and planking of all kinds."
Provisional protection only.

HUBART.
CANTILLON.
24th November 1859.

2663. ALFRED HUBART, and VICTOR CANTILLON, of Liege, Belgium, Gentleman, for an invention for—"Improvements in the manufacture of casks, barrels and other like vessels of glass, and in machinery or apparatus employed therein."
Letters Patent sealed.

LOSH.
24th November 1859.

2664. WILLIAM SEPTIMUS LOSH, of Wreay Syke, in the County of Cumberland, Esquire, for an invention for — "Improvements in the manufacture of paper and in the preparation of a substance to be employed therein."
Letters Patent sealed.

COLLINS.
CHARD.
24th November 1859.

2665. WILLIAM SANGER COLLINS, Junr., of Bristol, in the County of Somerset, and FREDERICK JAMES CHARD, of Warwick Street, Pimlico, in the County of Middlesex, for an invention for—"Improvements in apparatus for propelling vessels."
Provisional protection only.

SMITH.
25th November 1859.

2666. WILLIAM SMITH, of No. 19, Salisbury Street, Adelphi, Civil Engineer, for an invention for—"Improvements in applying and working propellors in boats or vessels."—*A communication from abroad by M. Eugene Lacroix, fils, of Rouen, Engineer.* *Letters Patent sealed.*

SMITH.
SMITH.
SMITH.
25th November 1859.

2667. CHARLES SMITH, ISAAC SMITH, and JOHN SMITH, all of Hopwood, near Heywood, in the County of Lancaster, Manufacturers, for an invention for—"Certain improvements in looms for weaving, and in apparatus for cutting the loops to form pile fabrics." *Letters Patent sealed.*

CARR.
25th November 1859.

2668. THOMAS CARR, of Bebington, in the County of Chester, Artificial Manure Manufacturer and Glue Boiler, for an invention for—"Improvements in arrangements and mechanism for drying glue, moulded clay, sugar, white lead, and various other substances and articles of manufacture." *Letters Patent sealed.*

SIM.
25th November 1859.

2669. JAMES SIM, of the City and County of Aberdeen, North Britain, Manufacturing Chemist, for an invention for—"Improvements in measuring and registering the flow or discharge of liquids." *Letters Patent sealed.*

READ.
RENNIE.
25th November 1859.

2670. ISAAC ALFRED READ, of Smethwick, near Birmingham, in the County of Warwick, Draughtsman, and WILLIAM RENNIE, of Birmingham, aforesaid, Manufacturer, for an invention for—"An improvement or improvements in connecting brooms with their sticks or handles."
Letters Patent sealed; no specification filed.

LINDON.
25th November 1859.

2671. HINGSTON LINDON, of Plymouth, in the County of Devon, for an invention for—"Machinery or apparatus for raising and forcing fluids, which is also applicable for other useful purposes." *Provisional protection only.*

TILDESLEY.
25th November 1859.

2672. MATTHEW TILDESLEY, of Willenhall, in the County of Stafford, Lock Manufacturer, for an invention for—"Improvements in locks and latches."—*Partly a communication from abroad by John Bisset, a Citizen of the United States of America, residing in New York.* *Letters Patent sealed.*

DONISTHORPE.
25th November 1859.

2673. GEORGE EDMOND DONISTHORPE, of Leeds, for an invention for—"Improvements in apparatus for hackling, dressing, and combing silk waste and other fibres." *Letters Patent sealed.*

LUKIN.
26th November 1859.

2674. AUGUSTUS STEPHEN LUKIN, of Swansea, in the County of Glamorgan, Civil Engineer, for an invention for—"Improvements in apparatus for drawing window blinds." *Provisional protection only.*

SCHEITHAUER.
26th November 1859.

2675. FERDINAND SCHEITHAUER, of Pensing, in the Empire of Austria, and No. 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved machine for printing woollen and other fabrics." *Letters Patent sealed.*

VANDECASTEELE.
26th November 1859.

2676. LOUIS JEAN VANDECASTEELE, of Bruges, in the Kingdom of Belgium, Gentleman, for an invention for—"An improved method of coupling the locomotive with the tender for the purpose of giving greater adhesion between the wheels of the former and the rails." *Letters Patent sealed.*

BEDELLS.
26th November 1859.

2677. CALEB BEDELLS, of Leicester, for an invention for—"Improvements in the manufacture of shoes and boots and in fabrics suitable for use in this manufacture."
Letters Patent sealed.

MOSELEY.
26th November 1859.

2678. WALKER MOSELEY, of 17 & 18, New Street, Covent Garden, in the County of Middlesex, for an invention for—"Improvements in fountain pens."
Letters Patent sealed.

AUERBACH.
26th November 1859.

2679. MORITZ AUERBACH, of the City of London, Commission Merchant and Agent, for an invention for—"Improved apparatus to be applied to omnibuses, stage-coaches and other similar vehicles, to indicate the distance each passenger travels and the amount of his fare."—*A communication from abroad by Eduard Schroder and Julius Amuel, both of Berlin, in the Kingdom of Prussia.* *Letters Patent sealed.*

WATSON.
HEALEY.
26th November 1859.

2680. THOMAS WATSON, and GEORGE HEALEY, both of Rochdale, in the County of Lancaster, Silk Manufacturers, for an invention for—"Certain improvements in the manufacture of silk velvets." *Letters Patent sealed.*

AUERBACH. 26th November 1859.

2681. MORITZ AUERBACH, of the City of London, Commission Merchant and Agent, for an invention for—"Improved apparatus to be applied to cabs, hackney-carriages and other similar vehicles, to indicate the number of persons carried, the distance travelled, and the amount of fares."—*A communication from abroad by Eduard Schroder, and Julius Amuel, both of Berlin, in the Kingdom of Prussia.* *Letters Patent sealed.*

MACNAUGHT. TAYLOR. 26th November 1859.

2682. WILLIAM MACNAUGHT, of Manchester, in the County of Lancaster, Engineer, and JOHN LEIGH TAYLOR, of Bolton, in the same County, Cotton Spinner, for an invention for—"An improved method of increasing the temperature of water for feeding steam boilers or vessels for generating steam, and in apparatus connected therewith." *Letters Patent sealed; no specification filed.*

EASTWOOD. 28th November 1859.

2683. JAMES EASTWOOD, of the Railway Iron Works, Litchurch, in the County of Derby, Engineer, for an invention for—"Improvements in steam hammers and in valves to be used therewith." *Letters Patent sealed.*

EASTWOOD. 28th November 1859.

2684. JAMES EASTWOOD, of the Railway Iron Works, Litchurch, in the County of Derby, Engineer, for an invention for—"Improvements in lathes." *Letters Patent sealed.*

TOMEY. 28th November 1859.

2685. ENOCH TOMEY, of the City and County of Perth, North Britain, Glass Manufacturer, for an invention for—"Improvements in apparatus for insulating telegraphic wires or conductors." *Letters Patent sealed.*

WILLIAMSON. PERKINS. 28th November 1859.

2686. ALEXANDER WILLIAM WILLIAMSON, of University College, and LOFTUS PERKINS, of Francis Street, Gray's Inn Road, Civil Engineer, for an invention for—"Improvements in machinery for propelling vessels." *Provisional protection only.*

LUCK. 28th November 1859.

2687. THOMAS LUCK, of Spalding, in the County of Lincoln, for an invention for—"Improvements in apparatus for removing straw from thrashing machines." *Provisional protection only.*

HODGE. 28th November 1859.

2688. PAUL RAPSEY HODGE, of No. 16, Chalcot Crescent, Primrose Hill, in the County of Middlesex, Civil Engineer, for an invention for—"The treatment and use of a new material in making of paper or other compounds of vegetable pulp." *Letters Patent sealed.*

BENTALL. 28th November 1859.

2689. EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the County of Essex, Agricultural Implement Maker, for an invention for—"Improvements in machinery for cutting vegetable substances." *Letters Patent sealed.*

BENTALL. 28th November 1859.

2690. EDWARD HAMMOND BENTALL, of Heybridge, near Maldon, in the County of Essex, Agricultural Implement Maker, for an invention for—"Improvements in apparatus for crushing or grinding grain or seeds." *Letters Patent sealed.*

BOWER. 28th November 1859.

2691. JOSEPH BOWER, of Hunslet, in the County of York, Chemist, for an invention for—"An improved method of preparing clay for the manufacture of crucibles, pots, and earthenware." *Letters Patent sealed.*

SELLS. 28th November 1859.

2692. CHARLES SELLS, of Stockwell, in the County of Surrey, Engineer, for an invention for—"Improvements in steam engines." *Letters Patent sealed.*

BROOMAN. 28th November 1859.

2693. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"An improved poultry wagon."—*A communication from abroad by Parfait Giot, of Paris.* *Letters Patent sealed.*

BROOMAN. 28th November 1859.

2694. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in the preparation of red coloring matters or dyes."—*A communication from abroad by Messrs. Renard Frères, of Lyons.* *Letters Patent sealed.*

WENHAM. 29th November 1859.

2695. FRANCIS HERBERT WENHAM, of Brixton, in the County of Surrey, Engineer, for an invention for—"Certain improvements in steam engines." *Letters Patent sealed.*

SHARPE. 29th November 1859.

2696. HENRY SHARPE, of Number Twenty-six, Broad Street Buildings, in the City of London, Merchant, for an invention for—"Improvement in the mode of preparing wool for the purpose of carding or combing it with a view to its being afterwards wove into thread."—*A communication from abroad by Hyppolite Dubeux, residing at Lisbon, in Portugal, Merchant.* *Provisional protection only.*

KING.
SUTCLIFFE.
29th November 1859.

2697. JAMES KING, of Rochdale, in the County of Lancaster, Cotton Spinner, and JOHN SUTCLIFFE, of the same place, Overlooker, for an invention for—"Certain improvements in and applicable to mules for spinning."
Provisional protection only.

ROBINSON.
29th November 1859.

2698. HENRY OLIVER ROBINSON, of 16, Park Street, in the City of Westminster, Civil and Mechanical Engineer, for an invention for—"Improvements in machinery and apparatus for the manufacture of sugar." *Letters Patent sealed.*

BERGER.
29th November 1859.

2699. JOHN BARKER BERGER, of Upper John Street, Fitzroy Square, in the County of Middlesex, Master Mariner, for an invention for—"An improved mode of and apparatus for facilitating the calculations required for navigating ships or vessels." *Letters Patent sealed; no specification filed.*

DEJEAN.
29th November 1859.

2700. LEON NUMA DEJEAN, of Paris, in the French Empire, Civil Engineer, for an invention for—"Improvements in hydraulic motive-power."
Letters Patent sealed.

COLWELL.
29th November 1859.

2701. CHARLES COLWELL, of Belvidere Place, Southwark, London, Gentleman, for an invention for—"An improved means of propelling sea going vessels without the use of either paddle wheel or screw propeller now adopted."
Provisional protection only.

RICHARDSON.
29th November 1859.

2702. THOMAS RICHARDSON, of Newcastle-on-Tyne, for an invention for—"Improvements in the manufacture of certain compounds of soda and potash."
Provisional protection only.

LAVATER.
29th November 1859.

2703. MANUEL LEOPOLD JONAS LAVATER, of the Strand, India Rubber Manufacturer, for an invention for—"Improvements in vulcanized india rubber bands."
Provisional protection only.

WAINWRIGHT.
30th November 1859.

2704. GEORGE JAMES WAINWRIGHT, of Dukinfield, in the County of Chester, Cotton Spinner, for an invention for—"Improvements in apparatus for supplying moisture to the air in cotton factories, and for indicating and registering the strength and elasticity of yarn and thread." *Letters Patent sealed.*

FITTON.
30th November 1859.

2705. THOMAS FITTON, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the slide valves of steam engines." *Provisional protection only.*

SAMUELSON.
MANWARING.
30th November 1859.

2706. BERNHARD SAMUELSON, and WILLIAM MANWARING, both of the Britannia Works, Banbury, in the County of Oxford, for an invention for—"Improvements in reaping and mowing machines." *Letters Patent sealed.*

MORTIMER.
SWAINE.
30th November 1859.

2707. SAMUEL MORTIMER, of Bradford, in the County of York, Machine Maker, and GEORGE SWAINE, of the same place, Overlooker, for an invention for—"Improvements in machinery or apparatus for spinning and doubling wool or other fibrous substances." *Letters Patent sealed.*

DORSETT.
30th November 1859.

2708. EDWARD DORSETT, of No. 76, Old Broad Street, in the City of London, Tar Distiller, for an invention for—"A new manufacture of heavy oil."
Letters Patent sealed.

WILSON.
30th November 1859.

2709. JOSEPH MICHAEL WILSON, of the City of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in finishing woven fabrics called Arabian stripes or scarfs." *Letters Patent sealed.*

DE MATTHYS.
30th November 1859.

2710. HIPPOLYTE DE MATTHYS, Civil Engineer, of Antwerp, in the Kingdom of Belgium, for an invention for—"Improvements in electric telegraph cables."
Letters Patent sealed.

TEIL.
30th November 1859.

2711. JEAN BAPTISTE TEIL, of Bourdeaux, France, Umbrella Maker, for an invention for—"Improvements in the construction of umbrellas and parasols."
Letters Patent sealed.

NEWTON.
30th November 1859.

2712. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of pianofortes."—*A communication from abroad by Frederick Mathushek, of New York, in the United States of America.* *Letters Patent sealed.*

FIRMIN. 30th November 1859.

2713. GEORGE JORDAN FIRMIN, of the Atlas Chemical Works, Borough Road, Southwark, in the County of Surrey, for an invention for—"Improvements in the manufacture of tartaric and citric acids, and certain salts in connection therewith." *Letters Patent sealed.*

LAWSON. COTTON. 30th November 1859.

2714. JOHN LAWSON, and STEPHEN COTTON, both of Leeds, in the County of York, Machinists, for an invention for—"Improvements in machinery for cutting and forming the teeth or cogs of wheels." *Letters Patent sealed.*

MERCIER. 1st December 1859.

2715. ACHILLE MERCIER, of Louviers, in the Department of the Eure, in the Empire of France, Engineer, for an invention for—"A machine for felting the rovings, stubs, and threads or yarns of wool and other fibrous materials." *Letters Patent sealed.*

GEYELIN. 1st December 1859.

2716. GEORGE KENNEDY GEYELIN, Civil Engineer, of 462, Oxford Street, London, in the County of Middlesex, for an invention for—"Making close folding metallic spring laths, mattrasses, and bedsteads." *Provisional protection only.*

FOURNIER. 1st December 1859.

2717. CHARLES ANTOINE FOURNIER, of No. 60, Boulevart de Strasbourg, Paris, in the Empire of France, Treasurer, Agent to the Ministèry of War, for an invention for—"A process and apparatuses intended to find out the escapes of lighting gas from the conveying pipes, and to determine the precise leaking places of the said pipes." *Letters Patent sealed and specification filed by order.*

MOSSELMAN. 1st December 1859.

2718. ALPHONSE MOSSELMAN, of Rue Saint Ghislain, No. 17, Gentleman, for an invention for—"An aromal electrical girdle." *Provisional protection only.*

SILVER. 1st December 1859.

2719. THOMAS SILVER, of Philadelphia, in the State of Pensylvania, United States of North America, Gentleman, for an invention for—"Improvements in apparatus for governing or regulating the speed of steam and other engines." *Letters Patent sealed.*

COCKS. 1st December 1859.

2720. JAMES COCKS, of No. 25, Cornhill, in the City of London, Tailor, for an invention for—"Improvements in the mode of manufacturing cloths or materials for trowserings." *Letters Patent sealed.*

TILL. 1st December 1859.

2721. THOMAS TILL, of Birmingham Heath, in the County of Warwick, Engineer and Machinist, for an invention for—"Improvements in machinery for the manufacture of horse-nails and other wrought nails." *Provisional protection only.*

NEWTON. 1st December 1859.

2722. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved apparatus applicable for beating eggs or mixing substances or liquids."—*A communication from abroad by Edwin Pear Monroe, of New York, in the United States of America.* *Letters Patent sealed.*

PATON 1st December 1859.

2723. JOHN PATON, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in valves." *Letters Patent sealed.*

DAVIDSON. 1st December 1859.

2724. GEORGE DAVIDSON, of Mugie Moss, in the County of Aberdeen, Paper Manufacturer, for an invention for—"Improvements in the manufacture of paper bags, and in the machinery or apparatus used therein." *Letters Patent sealed.*

JOHNSON. 1st ecem ber 1859.

2725. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for preserving and cooking food."—*A communication from abroad by John McCormick, of Madison, Indiana, and Edward Pincus, of Philadelphia, both in the United States of America.* *Provisional protection only.*

DODGE. 1st December 1859.

2726. NATHANIEL SHATTSWELL DODGE, of 44, St. Paul's Church Yard, in the City of London, Merchant and Manufacturer, for an invention for—"Improvements in the construction of lamps."—*A communication from abroad by William Fulton, of Cranberry, in the County of Middlesex, New Jersey, United States of America.* *Provisional protection only.*

BETTS. 2nd December 1859.

2727. WILLIAM BETTS, of Wharf Road, City Road, in the County of Middlesex, Capsule Manufacturer, for an invention for—"Improvements in the manufacture of capsules, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

MOORE.
2nd December 1859.

2723. JOHN MOORE, of No. 46, New Road, Woolwich, in the County of Kent, Ironmonger, for an invention for —"An improved damper for chimnies and flues."
Letters Patent sealed.

BRABSON.
2nd December 1859.

2729. THOMAS FREDERICK BRABSON, of Birmingham, in the County of Warwick, Brassfounder, for an invention for—"Improvements in door springs."
Letters Patent sealed.

MAKINSON.
HOPE.
2nd December 1859.

2730. DANIEL MAKINSON, of Bolton-le-Moors, in the County of Lancaster, Mechanic, and JAMES HOPE, of Harwood Lee, near Bolton-le-Moors, aforesaid, Carder, for an invention for—"Certain improvements in carding engines."
Provisional protection only

SMITH.
2nd December 1859.

2731. GEORGE FREDERICK SMITH, of No. 15, Golden Square, in the County o Middlesex, Gentleman, for an invention for—"Improvements in smelting and purifying iron and other ores."—*A communication from abroad by Robert William Sievier, late of Upper Holloway, in the County of Middlesex, but now residing at Hamburgh.* *Complete specification; protection for SIX months only.*

ALDRIDGE.
2nd December 1859.

2732. WILLIAM HENRY ALDRIDGE, of Kingsdown, in the City of Bristol, Iron Merchant, for an invention for—"Certain improvements in paddle wheels or propellers of steam ships." *Provisional protection only.*

NEWTON.
2nd December 1859.

2733. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improvements in the construction of coiled springs."—*A communication from abroad by Carlos French, of Seymour, New Haven, Connecticut, in the United States of America.* *Letters Patent sealed.*

NEWTON.
2nd December 1859.

2734. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of treating india rubber, gutta percha, and analogous gums."—*A communication from abroad by George August Englehard, and Horace Hollister Day, of New York, in the United States of America.*

RUSSELL.
3rd December 1859.

2735. THOMAS ROBERT RUSSELL, of Liverpool, in the County of Lancaster, Watch Manufacturer, for an invention for—"The application of a certain metal for the movements of watches and other timekeepers." *Letters Patent sealed.*

HALL.
3rd December 1859.

2736. THOMAS HALL, of Ancoats Grove, in the City of Manchester, Foreman, for an invention for—"Certain improvements in the construction of cartridges."
Letters Patent sealed.

WILSON.
3rd December 1859.

2737. JOSEPH WILLIAM WILSON, of Buckingham Street, Strand, London, County of Middlesex, Civil Engineer, for an invention for—"Improvements in the mode of forming and constructing boxes or cases for postal and other purposes."
Provisional protection only.

PALLING.
3rd December 1859.

2738. FRANCIS PALLING, of Esher Street, Lambeth, County of Surrey, Clerk, for an invention for—"Improvements in the construction of lamps for burning oils and tallow." *Provisional protection only.*

DRAYSON.
3rd December 1859.

2739. HENRY EDWIN DRAYSON, of Bridge Street, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the mode of extinguishing fires in ships, steam boats, vessels, of every description, houses, warehouses, stores, or other buildings of whatever kind, and in the machinery connected therewith." *Provisional protection only.*

ANDERSON.
BRADSHAW.
3rd December 1859.

2740. JAMES ANDERSON, and JAMES BRADSHAW, Bakers, Liverpool, Lancashire, for an invention for—"Improvements in the construction of the furnaces of bakers' ovens, for the purpose of consuming smoke, which improvements are also applicable to the consumption of smoke in other furnaces."
Complete specification; Letters Patent sealed.

BOND.
HAYHURST.
3rd December 1859.

2741. RICHARD BOND, of Burnley, in the County of Lancaster, "Temple" and "Roller" Maker, and WILLIAM HAYHURST, of the same place, Mechanic, for an invention for—"Improved machinery or apparatus to be employed in the manufacture of a certain description of 'temples' used in power looms for weaving."
Letters Patent sealed.

PARSONS. 3rd December 1859.

2742. PERCEVAL MOSES PARSONS, of Arthur Street West, London Bridge, in the County of Middlesex, Engineer, for an invention for—"Improvements in fire arms and projectiles." *Provisional protection only.*

CLAYTON. SHUTTLEWORTH. 3rd December 1859.

2743. NATHANIEL CLAYTON, and JOSEPH SHUTTLEWORTH, of the City of Lincoln, for an invention for—"Improvements in steam boiler safety valves." *Letters Patent sealed.*

RUDKIN. 3rd December 1859.

2744. JOHN RUDKIN, of the Slate Works, Groby, near Leicester, for an invention for—"Improvements in stoppers for bottles." *Letters Patent sealed.*

CURLEY. 3rd December 1859.

2745. EDWIN AUGUSTUS CURLEY, of Richmond Street, Saint George's Road, Southwark, in the County of Surrey, for an invention for—"Improved mechanical arrangements or contrivances for measuring, registering and regulating the flow of liquids, and likewise for measuring and regulating the passage of fluids and vapours." *Letters Patent sealed.*

SMITH. 3rd December 1859.

2746. CHARLES LAVERS SMITH, of Highbury Crescent, in the County of Middlesex, Manufacturing Chemist, for an invention for—"Improvements in the preparation of certain coloring matters for dyeing, staining and printing."—*A communication from abroad by Albert Schlumberger, of Mulhouse, in the Empire of France.* *Letters Patent sealed.*

KELLY. 5th December 1859.

2747. EDWARD KELLY, of Erdington, near Birmingham, in the County of Warwick, Plumber, for an invention for—"An improved washstand, part of which is also applicable for other useful purposes." *Letters Patent sealed.*

HAWKINS. HAWKINS. 5th December 1859.

2748. JOHN HAWKINS, of Lisle Street, London, in the County of Middlesex, and of Walsall, in the County of Stafford, Bit, Spur and Stirrup Manufacturer, and CHARLES HAWKINS, of Walsall, aforesaid, Manager of the Works of the said John Hawkins, for an invention for—"Certain improvements in the construction of furnaces for consuming smoke, applicable to stationary and marine boilers and other closed fire places." *Letters Patent sealed.*

BENN. 5th December 1859.

2749. JULIUS BENN, of Tiffield, in the County of Northampton, Superintendent of the Tiffield Reformatory, for an invention for—"Improvements in drills." *Letters Patent sealed.*

YOUENS. 5th December 1859.

2750. WILLIAM YOUENS, of Hackney, in the County of Middlesex, for an invention for—"Improvements in apparatus for playing keyed musical instruments." *Provisional protection only.*

SHORT. SMEETON. BOWLER. 5th December 1859.

2751. CHARLES SHORT, of Westwood, in the Parish of Selston, in the County of Nottingham, Smith, THOMAS BOWES SMEETON, of Underwood, in the said County of Nottingham, Farmer, and WILLIAM BOWLER, of Butterley Park, in the Parish of Pentrich, in the County of Derby, Farmer, for an invention for—"The manufacture of bricks, tiles, drain pipes or other articles from cinder or refuse slag." *Letters Patent sealed.*

FELDWICK. 5th December 1859.

2752. GEORGE FELDWICK, of Saint Martin's Court, in the City of Westminster, Ironmonger, for an invention for—"An improvement in roller blinds." *Letters Patent sealed.*

LANCASTER. 5th December 1859.

2753. ALFRED LANCASTER, of Kensington, in the County of Middlesex, Gun Maker, for an invention for—"Improvements in breech loading fire arms in projectiles, and in apparatus for charging cartridges for breech loading and other arms." *Provisional protection only.*

HUTTON. 5th December 1859.

2754. WILLIAM HUTTON, of West Hartlepool, in the County of Durham, Gentleman, for an invention for—"Improvements in preventing the destruction of the timbers of piers, docks and other structures, by the action of sea worms or other marine animals." *Letters Patent sealed.*

NEGRETTI. ZAMBRA. 5th December 1859.

2755. ENRICO ANGELO LUDOVICO NEGRETTI, and JOSEPH WARREN ZAMBRA, of Hatton Garden, in the City of London, Meteorological Instrument Makers, for an invention for—"Improvements in stereoscopes." *Provisional protection only.*

DOWLING. 6th December 1859.

2756. EDWARD DOWLING, of Woodford Bridge, in the County of Essex, for an invention for—"Improvements in fire escapes." *Provisional protection only.*

COIGNET. 6th December 1859.

2757. FRANÇOIS COIGNET, of 33, Boulevard St. Martin, at Paris, in the Empire of France, Manufacturer, for an invention for—"Improvements in the manufacture of beton or composition applicable for purposes of covering building and construction, and for various uses as artificial stone." *Letters Patent sealed.*

SELLS. 6th December 1859.

2758. CHARLES SELLS, of Stockwell, in the County of Surrey, Engineer, for an invention for—"Improvements in marine steam engines for driving screw and other propellers." *Letters Patent sealed.*

SHAW. 6th December 1859.

2759. JAMES SHAW, of the City of Manchester, in the County of Lancaster, Medical Practitioner, for an invention for—"Improvements in the insulation and laying-down conducting wires for the transmission of telegrams or telegraphic messages." *Letters Patent sealed.*

JONES. HILTON. 6th December 1859.

2760. JAMES JONES, Assistant Manager, & JOHN HILTON, Millwright, both of Rhodes, near Middleton, in the County of Lancaster, for an invention for—"Improvements in apparatus to be used in dyeing, dunging, soaping, and clearing fabrics." *Letters Patent sealed.*

WOOD. 6th December 1859.

2761. EDWIN ARCHER WOOD, of Victoria Terrace, Notting Hill West, in the County of Middlesex, for an invention for—"Certain improvements in anchors." *Provisional protection only.*

NEWTON. 6th December 1859.

2762. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved mode of treating gums, such as india rubber or gutta percha, for the manufacture of various articles."—*A communication from abroad by Rudolph Franz Heinrich Havemann, of New Brunswick, in the County of Middlesex, and State of New Jersey, United States of America.*

TURNER. 6th December 1859.

2763. ARCHIBALD TURNER, of Leicester, Elastic Web Manufacturer, for an invention for—"Improvements in the manufacture of elastic fabrics." *Letters Patent sealed; no specification filed.*

POTTS. 6th December 1859.

2764. FERDINAND POTTS, of the firm of F. Potts & Co., Patent Tube Manufacturers, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the mode of manufacturing or finishing tubes for certain purposes." *Letters Patent sealed.*

LEVICK. 7th December 1859.

2765. FREDERICK LEVICK, of Blaina Cwm Celyn and Coalbrook Vale Iron Works, in the County of Monmouth, Iron Master, for an invention for—"A new or improved coke oven." *Letters Patent sealed.*

SIEVIER. 7th December 1859.

2766. ROBERT WILLIAM SIEVIER, F.R.S., of London, in the Kingdom of Great Brittain, but now temporally residing in the Hanseatic Town of Hamburg, Germany, for an invention for—"Improvements in the method of and apparatus for regulating the speed of steam engines connected with the propelling of steam boats or ships." *Provisional protection only.*

ANDERSON. 7th December 1859.

2767. JAMES ANDERSON, of Newton, in the County of Ayr, North Britain, for an invention for—"Improvements in obtaining motive power." *Letters Patent sealed.*

BRADFORD. 7th December 1859.

2768. THOMAS BRADFORD, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery or apparatus for wringing and mangling textile fabrics." *Provisional protection only.*

BROOMAN. 7th December 1859.

2769. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in marine steam engines for driving screw and other propellers, and in screw propellers."—*A communication from abroad by Nicolas Hippolyte Labrousse, of Paris.* *Provisional protection only.*

SCHÄFER. 7th December 1859.

2770. FREDERICK WILLIAM SCHÄFER, of the firm of P. & F. Schäfer, of Brewer Street, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in cash, deed, jewel, and other boxes." *Provisional protection only.*

COLLYER. 7th December 1859.

2771. ROBERT HANHAM COLLYER, of 8, Alpha Road, Saint John's Wood, in the County of Middlesex, M.D., and Ph. D., for an invention for—"A chemical ink-pencil or composition applicable as an instrument or means for writing, drawing, and marking." *Letters Patent sealed.*

JACOBY.
7th December 1859.

2772. MORITZ JACOBY, of Nottingham, for an invention for—"Improvements in the manufacture of twist lace." *Provisional protection only.*

HARDING.
7th December 1859.

2773. THOMAS RICHARDS HARDING, of Leeds, in the County of York, Hackle Pin Manufacturer, for an invention for—"Improvements in combs or hackles for combing, carding, or hackling flax, cotton, silk, or other fibrous materials (which are also applicable to raising the nap or pile of woollen or other cloths), and in the making of pins or teeth for such combs or hackles." *Letters Patent sealed.*

COMBE.
7th December 1859.

2774. JAMES COMBE, of Belfast, for an invention for—"Improvements in the mode of and machinery for hackling, carding, and preparing flax and other fibrous substances, part of which improvements is applicable to transmitting power generally." *Letters Patent sealed.*

DE CHANGY.
7th December 1859.

2775. CHARLES CONSTANT SIMONET DE CHANGY, of Boloungе-sur-Mer, in the Empire of France, for an invention for—"Improvements in the manufacture of bread, which improvements are also applicable in the preparation of dough or paste for other purposes." *Letters Patent sealed.*

MABBOTT.
7th December 1859.

2776. JOSEPH MABBOTT, of No. 7, Sunbury Terrace, Liverpool Road, in the County of Middlesex, for an invention for—"Improvements in wind-guards for chimnies." *Letters Patent sealed.*

PATTISON.
7th December 1859.

2777. ROBERT THOMSON PATTISON, residing at Daldorch House, in the County of Ayr, in Scotland, for an invention for—"Improvements in printing and dyeing certain woven fabrics and yarns." *Provisional protection only.*

SPENCE.
8th December 1859.

2778. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in rotating harrows."—*A communication from abroad by Sidney S. Hogle, of Cleveland, in the County of Cuyahoga, and State of Ohio, United States.* *Letters Patent sealed.*

ALLEYNE.
8th December 1859.

2779. JOHN GAY NEWTON ALLEYNE, of Butterley Iron Works, Alfreton, in the County of Derby, for an invention for—"Improvements in the manufacture of boilers, ships' tanks, and other hollow vessels of iron and steel." *Letters Patent sealed.*

ARROWSMITH.
8th December 1859.

2780. JOHN ARROWSMITH, of Bilston, in the County of Stafford, Engineer, for an invention for—"A new or improved method of constructing land batteries and gun boats." *Letters Patent sealed.*

ARROWSMITH.
8th December 1859.

2781. JOHN ARROWSMITH, of Bilston, in the County of Stafford, Engineer, for an invention for—"Improvements in the manufacture of beams or girders, and in machinery and furnaces used in the said manufacture." *Letters Patent sealed.*

FOORD.
8th December 1859.

2782. JOHN ROSS FOORD, of Acom Wharf, Rochester, Kent, Contractor, for an invention for—"Improvements in applying travellers or lifting engines to barges or other craft for drawing piles, raising sunken craft, moorings, and other such like purposes." *Letters Patent sealed.*

GRAY.
SCHOLFIELD.
8th December 1859.

2783. ROBERT GRAY, of Sheffield, in the County of York, Wire Drawer and Crinoline Steel Manufacturer, & THOMAS HOUGHTON SCHOLFIELD, of the same place, Manager, for an invention for—"Improvements in flattening and tempering steel wire and sheet steel, and also in the tubes employed in the furnaces." *Provisional protection only.*

CROOK.
8th December 1859.

2784. THOMAS CROOK, of Bolton-le-Moors, in the County of Lancaster, Jacquard Card Maker, for an invention for—"Improvements in machinery or apparatus for making paper bags." *Letters Patent sealed.*

PROSSER.
HOGG.
8th December 1859.

2785. WILLIAM PROSSER, and JOHN HOGG, both of Witton Park, Darlington, in the County of Durham, for an invention for—"An improved cooking apparatus particularly suitable for military purposes." *Letters Patent sealed.*

NORRIS.
TILL.
8th December 1859.

2786. JOHN NORRIS, Junior, of Birmingham, in the County of Warwick, Manufacturer, and THOMAS TILL, of Birmingham Heath, in the same County, Engineer and Machinist, for an invention for—"Improvements in machinery to be used in manufacturing horse-nails and other wrought nails." *Provisional protection only.*

ELLIOTT.
ELLIOTT.
8th December 1859.

2787. FREDERICK HENRY ELLIOTT, and CHARLES ALFRED ELLIOTT, of the Strand, in the City of Westminster, Mathematical Instrument Makers, for an invention for—"An improved method of preventing drawing boards and other flat wooden surfaces from warping or twisting, and of adding to the strength thereof."
Letters Patent sealed.

RUMPFF.
8th December 1859.

2788. AUGUSTUS RUMPFF, of the firm of Weintraud, Rumpff and Company, of King Street, Cheapside, in the City of London, Manufacturers, for an invention for—"An improved fastening for portemonnaies, portfolios, bags and other like articles."—*A communication from abroad by C. Weintraud, the younger, of Offenbach.*
Provisional protection only.

MACINTOSH.
8th December 1859.

2789. JOHN MACINTOSH, of 40, North Bank, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the manufacture of waterproof and other fabrics, and of moulded or formed articles." *Letters Patent sealed.*

MACINTOSH.
8th December 1859.

2790. JOHN MACINTOSH, of 40, North Bank, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in setting artificial teeth."
Letters Patent sealed.

MACINTOSH.
8th December 1859.

2791. JOHN MACINTOSH, of 40, North Bank, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in cartridges and projectiles."
Letters Patent sealed.

BOALER.
9th December 1859.

2792. WILLIAM BOALER, of No.76, Cedar Street, New York, in the United States of America, Merchant for an invention for—"An improved compound for washing purposes." *Letters Patent sealed.*

LAWSON.
HAGO.
9th December 1859.

2793. JOHN LAWSON, of Glasgow, in the County of Lanark, North Britain, Designer, and WILLIAM HAGO, of the same place, Clockmaker, for an invention for—"Improvements in apparatus to be used in spinning or twisting."
Letters Patent sealed.

SPILLER.
9th December 1859.

2794. JOEL SPILLER, of Cardiff, in the County of Glamorgan, South Wales, Civil Engineer, for an invention for—"Improvements in drying articles or bodies formed of plastic clay." *Letters Patent sealed.*

TENWICK.
9th December 1859.

2795. JOHN TENWICK, of Clarendon Street (Albion Foundry), Portsmouth, Hampshire, for an invention for—"Improvements in the construction of steering apparatus adapted for ships and such like navigable vessels." *Letters Patent sealed.*

HUGHES.
MOORE.
9th December 1859.

2796. HESKETH HUGHES, of Homerton, in the County of Middlesex, Engineer, and JOHN MOORE, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery for transferring, and for transferring and engraving designs and figures on to cylindrical and flat surfaces."
Provisional protection only.

DUNNICLIFF.
9th December 1859.

2797. JOHN DEARMAN DUNNICLIFF, of Nottingham, for an invention for—"An improvement in the manufacture of bonnet fronts and ruches."
Letters Patent sealed.

BETTS.
9th December 1859.

2798. WILLIAM BETTS, of Wharf Road, City Road, in the County of Middlesex, Capsule Manufacturer, for an invention for—"An improved manufacture of capsules." *Letters Patent sealed.*

THOMSON.
THOMSON.
THOMSON.
9th December 1859.

2799. JAMES THOMSON, ROBERT THOMSON, and HENRY THOMSON, all of Buckden, in the County of Huntingdon, for an invention for—"An improved agricultural implement." *Letters Patent sealed.*

HEILMAN.
10th December 1859.

2800. RUDOLPH HEILMAN, of the City of Manchester, in the County of Lancaster Manufacturing Chemist, for an invention for—"The preparation of a new colour called Azaleine and its application to dyeing and printing."—*A communication from Jean Gerber Keller, of Mullhouse, in the Empire of France, a foreigner residing abroad.* *Letters Patent sealed; no specification filed.*

CALVERT.
LOWE.
10th December 1859.

2801. FREDERICK CRACE CALVERT, and CHARLES LOWE, both of the City of Manchester, in the County of Lancaster, Analytical Chemists, for an invention for—"Improvements in dyeing and printing certain yarns and fabrics."
Provisional protection only.

DAVIES.
16th December 1859.

2802. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for —"An improvement in tobacco pipes, mouthpieces, and cigar or cigarette holders."—*A communication from abroad by Messrs. Viney, Sommer, and Hammer, all of Paris, France.* *Letters Patent sealed.*

HORTON.
10th December 1859.

2803. WILLIAM HORTON, of Smethwick, in the County of Stafford, Boiler and Gas Holder Manufacturer, for an invention for—"An improvement or improvements in steam boilers." *Letters Patent sealed.*

GAMMON.
10th December 1859.

2804. CHARLES GAMMON, of No. 9, Cloak Lane, in the City of London, Solicitor, for an invention for—"An improved fastener for gloves and other articles." *Provisional protection only.*

FARQUHAR.
10th December 1859.

2805. JAMES FARQUHAR, of the City and County of Aberdeen, North Britain, Clerk, for an invention for—"Improvements in gas meters." *Letters Patent sealed; no specification filed.*

WHITELEY.
10th December 1859.

2806. WILLIAM WHITELEY, of Lockwood, near Huddersfield, in the County of York, Machinist, for an invention for—"Improvements in looms for weaving." *Provisional protection only.*

CHATTERTON.
10th December 1859.

2807. JOHN CHATTERTON, of 19, Wharf Road, City Road, in the County of Middlesex, Lead Manufacturer, for an invention for—"Improvements in the manufacture of projectiles." *Letters Patent sealed.*

BELL.
10th December 1859.

2808. ISAAC LOWTHIAN BELL, of the Washington Chemical Works, Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of the sulphate of magnesia." *Letters Patent sealed.*

CHATTERTON.
SMITH.
10th December 1859.

2809. JOHN CHATTERTON, of Highbury Terrace, and WILLOUGHBY SMITH, of Pownall Road, Dalston, both in the County of Middlesex, for an invention for—"Improvements in insulating telegraphic conductors, and in the treatment of gutta percha." *Letters Patent sealed.*

CAMPAIN.
10th December 1859.

2810. SAMUEL WILLIAM CAMPAIN, of Deeping Saint Nicholas, in the County of Lincoln, Farmer, for an invention for—"Improved machinery for removing or elevating straw and other agricultural produce." *Letters Patent sealed.*

BONNIN.
PONS.
10th December 1859.

2811. WILLIAM WINGFIELD BONNIN (British Subject), and FRANCIS PONS (Sardinian Subject), both of Genoa, Italy, for an invention for—"A new system and improvements in locomotive engines." *Provisional protection only.*

STICKLAND.
10th December 1859.

2812. DAVID STICKLAND, of Hayle, in the County of Cornwall, Mine Agent, for an invention for—"An apparatus for separating, sifting, sorting and cleansing mineral ores." *Provisional protection only.*

EMERY.
12th December 1859.

2813. RICHARD EMERY, of No. 6, King's Street, St. James Square, in the City of Westminster, and County of Middlesex, for an invention for—"Improvements in carriages for common roads." *Letters Patent sealed.*

BRECKON.
DIXON.
12th December 1859.

2814. JOHN ROBERT BRECKON, of Darlington, in the County of Durham, Accountant and Colliery Manager, and ROBERT DIXON, of Crook, in the said County of Durham, Mechanical Engineer, for an invention for—"Improvements in the construction of coke ovens." *Letters Patent sealed.*

GENNERICH.
12th December 1859.

2815. PRINCE GUSTAVE GENNERICH, of Poland, at the British and Foreign Office for Patents, No. 1B, Welbeck Street, Cavendish Square, in the County of Middlesex, for an invention for—"A new system of motive power applicable for working cranes and wheels. *Letters Patent sealed.*

STATHER.
12th December 1859.

2816. THOMAS STATHER, of Kingston-upon-Hull, Engineer, for an invention for—"Improvements in the ventilation of buildings, ships and other enclosed places." *Provisional protection only.*

STIRLING.
12th December 1859.

2817. PATRICK STIRLING, of Kilmarnock, in the County of Ayr, North Britain, for an invention for—"Improvements in traction engines." *Letters Patent sealed.*

WATSON.
12th December 1859.

2818. GEORGE CHURCHILL WATSON, of the City of Chester, Physician, for an invention for—"Novel and artistic bricks or 'lumps' for the reception, growth, and propagation of ferns, mosses, and other plants." *Letters Patent sealed.*

LOUGH.
12th December 1859.

2819. GEORGE LOUGH, of Flemington, North Melburn, Victoria, Australia, for an invention for—"An improved compound motive power engine."
Provisional protection only.

ROLLET.
12th December 1859.

2820. GEORGE HANDSON ROLLET, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"An improved machine for the manufacture of pressed bullets." *Provisional protection only.*

CLAY.
12th December 1859.

2821. WILLIAM CLAY, of Liverpool, in the County of Lancaster, Iron and Steel Manufacturer, for an invention for—"An improved mode of manufacturing cannon and other ordnance." *Letters Patent sealed.*

ISAAC.
12th December 1859.

2822. JOHN RAPHAEL ISAAC, of Liverpool, in the County of Lancaster, Draughtsman, for an invention for—"Improvements in the construction of hand boxes for travellers." *Provisional protection only.*

BAILEY.
12th December 1859.

2823. JOHN BAILEY, of Dunstable, for an invention for—"Improvements in the manufacture of corsets and stays." *Provisional protection only.*

TEALL.
12th December 1859.

2824. WILLIAM TEALL, of Wakefield, in the County of York, Grease Manufacturer, for an invention for—"Improvements in treating fatty and oily matters obtained from wash waters."—*A communication from abroad by Monsr. Kirsch, of Aix-la-Chapelle, in the Kingdom of Prussia.* *Letters Patent sealed.*

VINALL.
13th December 1859.

2825. CALEB VINALL, House Decorator, No. 25, Walton Street, Brompton, in the County of Middlesex, for an invention for—"Improvements in and mechanism for retaining the rollers of window blinds, maps, charts, and other articles requiring to be wound on rollers." *Provisional protection only.*

REDWOOD.
13th December 1859.

2826. THEOPHILUS REDWOOD, of 19, Montague Street, Russell Square, in the County of Middlesex, for an invention for—"Improvements in the manufacture of paper and of substances used in paper-making, and for other purposes."
Provisional protection only.

WITHERS.
13th December 1859.

2827. GEORGE WITHERS, Engineer and Machinist, of Westbromwich, in the County of Stafford, for an invention for—"Certain improvements in blocks for moulding and shaping glass during the process of blowing or forming glass for blowing sheet glass, glass shades, and such like articles."
Provisional protection only.

JOHNSON.
ATKINSON.
13th December 1859.

2828. JOHN ROBERT JOHNSON, of Hammersmith, and JOHN STAINES ATKINSON, of Red Lion Square, both in the County of Middlesex, for an invention for—"Improvements in machinery for manufacturing printing types."
Letters Patent sealed.

HARDING.
13th December 1859.

2829. WILLIAM HARDING, of Rutland Terrace, Forrest Hill, in the County of Kent, for an invention for—"Improvements in breech loading fire arms and in cartridge carriers." *Provisional protection only.*

BARLING.
13th December 1859.

2830. JOHN BARLING, of Belle Grange, in the County of Lancaster, Gentleman, for an invention for—"Improvements in propelling vessels." *Letters Patent sealed.*

ROBINSON.
13th December 1859.

2831. WILLIAM ROBINSON, of Wembdon, Bridgewater, in the County of Somerset, Brewer, for an invention for—"Improvements in cask washing machines."
Letters Patent sealed.

LISTER.
WARBURTON.
13th December 1859.

2832. SAMUEL CUNLIFFE LISTER, of Manningham, and JAMES WARBURTON, of Addingham, Spinners, for an invention for—"Improvements in machinery for preparing and combing wool, flax, silk, and other fibrous materials."
Letters Patent sealed.

DICKSON.
13th December 1859.

2833. JAMES HILL DICKSON, of Commercial Street, Rotherhithe, in the County of Surrey, Machine Maker, for an invention for—"Improvements in the manufacture of yarns and in the machinery to be employed in the preparation of certain fibres to be thus manufactured into yarns." *Letters Patent sealed.*

HULSE.
14th December 1859.

2834. WILLIAM HULSE, of Birmingham, in the County of Warwick, Whitesmith, for an invention for—"Improvements in the manufacture and ornamentation of metallic bedsteads and other articles of like manufacture, and in apparatus and machinery employed therein." *Letters Patent sealed.*

CLARK.
14th December 1859.

2835. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"A heating apparatus for boots and shoes and other coverings for the feet."—*A communication from abroad by Messrs. Bibet, Léger & Faury, of 29, Boulevart St. Martin, Paris, Merchants.*
Letters Patent sealed.

BOLTON.
BERTENSHAW.
McCONNELL.
14th December 1859.

2836. THOMAS BOLTON, of Bolton-le-Moors, in the County of Lancaster, Cotton-doubler, and JOHN BERTENSHAW, of the same place, Cotton-doubler, and JAMES McCONNELL, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for roving, slubbing, spinning and doubling cotton and other fibrous materials." *Letters Patent sealed.*

CHAMPION.
14th December 1859.

2837. JAMES CHAMPION, of the City of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improved arrangements of spindles, flyers and bobbins applicable to machinery or apparatus for preparing, spinning and doubling fibrous materials." *Letters Patent sealed.*

BEDSON.
14th December 1859.

2838. GEORGE BEDSON, of Manchester, in the County of Lancaster, Manager for Messrs. R. and W. Johnson & Co., Iron Manufacturers, for an invention for—"Improvements in puddling furnaces." *Letters Patent sealed.*

LEACH.
14th December 1859.

2839. GEORGE LEACH, of Britannia Mills, Leeds, in the County of York, Yarn Spinner and Cloth Manufacturer, for an invention for—"An improved mode of and apparatus for oiling, preparing, and mixing wool." *Letters Patent sealed.*

BENTLEY.
STRINGER.
14th December 1859.

2840. SAMUEL BENTLEY, Manager of the Holyhead Gas Tube Works, at Wednesbury, in the County of Stafford, and JOHN STRINGER, Licensed Victualler, also of Wednesbury, in the same County, for an invention for—"Certain improvements in railway chairs." *Letters Patent sealed.*

LAWSON.
14th December 1859.

2841. RAMSEY LAWSON, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for punching patterns or devices upon metallic printing rollers or cylinders."
Provisional protection only.

LESLIE.
14th December 1859.

2842. ANDREW LESLIE, of Hebburn Quay, Gateshead, in the County of Durham, Iron Ship Builder, for an invention for—"Improvements in the construction of iron ships or vessels, and for strengthening the same." *Letters Patent sealed.*

RHODES.
14th December 1859.

2843. JOSEPH RHODES, of Wakefield, in the County of York, Engineer, for an invention for—"Improvements in steam hammers." *Letters Patent sealed.*

IBBOTSON.
14th December 1859.

2844. ALFRED BUCKINGHAM IBBOTSON, of Sheffield, in the County of York, Steel and File Manufacturer, for an invention for—"An improved draw and buffer spring apparatus for railway carriages."—*A communication from abroad by John Parker, of Florence.* *Letters Patent sealed.*

WATSON.
14th December 1859.

2845. WILLIAM WATSON, of Leeds, in the County of York, Manufacturing Chemist, for an invention for—"An improvement in preparing indigo for dyeing and other purposes." *Letters Patent sealed.*

HAWKSLEY.
14th December 1859.

2846. GEORGE HAWKSLEY, of Three Mill Lane, Bromley by Bow, in the County of Middlesex, for an invention for—"Improvements in pumps."
Letters Patent sealed.

CROCKER.
14th December 1859.

2847. WILLIAM ROBINSON CROCKER, of Northumberland Street, Strand, in the County of Middlesex, for an invention for—"Improvements in cutting corks and bungs, and in apparatus employed therein." *Letters Patent sealed.*

LESLIE.
14th December 1859.

2848. GEORGE LESLIE, of the Mall, Hammersmith, in the County of Middlesex, Esquire, for an invention for—"Improvements in preserving casks by means of self-acting apparatus for closing up the holes made in casks, and excluding air from such casks when in an empty state." *Letters Patent sealed.*

WILKINS.
15th December 1859.

2849. WILLIAM CRANE WILKINS, of Long Acre, in the County of Middlesex, Lighthouse Engineer, for an invention for—"Improvements in lamps for lighthouse purposes." *Provisional protection only.*

BETTLES.
15th December 1859.

2850. FRANCIS JOHN BETTLES, of Kingsland, in the County of Middlesex, for an invention for—"Improvements in apparatus for propelling vessels."
Provisional protection only.

PREDAVALLE. 15th December 1859.

2851. BARTOLOMMEO PREDAVALLE, of Bloomsbury Street, Bloomsbury Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in producing or obtaining motive power." *Provisional protection only.*

REEVES. 15th December 1859.

2852. CHARLES REEVES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in breech loading fire arms." *Letters Patent sealed.*

WESTWOOD. 15th December 1859.

2853. WILLIAM WESTWOOD, of No. 43, West Square, in the Borough of Southwark, in the County of Surrey, Coal Merchant, for an invention for—"Improvements in the manufacture and burning of Portland cement." *Provisional protection only.*

CORMIER. 15th December 1859.

2854. EDOUARD CORMIER, of Paris, France, Gentleman, for an invention for—"Improvements in the preservation of eggs." *Letters Patent sealed.*

HARDY. 15th December 1859.

2855. JAMES KELITA HARDY, of Fenchurch Street, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of bottle stands." *Provisional protection only.*

MARTIN. 15th December 1859.

2856. HENRY MARTIN, of Stockton-on-Tees, in the County of Durham, Engineer, for an invention for—"Improvements in pumps and beer engines." *Letters Patent sealed.*

HANCOCK. 15th December 1859.

2857. CHARLES HANCOCK, of West Street, West Smithfield, in the City of London, Gutta Percha Manufacturer, for an invention for—"Improvements in insulating telegraphic conductors and manufacturing cables for telegraphic purposes." *Letters Patent sealed.*

GADD. 15th December 1859.

2858. WILLIAM GADD, of Langsyne Terrace, in the Town and County of the Town of Nottingham, Lace Manufacturer, for an invention for—"The manufacture of edgings and quillings made simultaneously on lace or warp lace machinery." *Letters Patent sealed.*

FLEETWOOD. 15th December 1859.

2859. DANIEL JOSEPH FLEETWOOD, of Birmingham, Copper Agent, for an invention for—"Improvements in machinery for raising and stamping metal." *Letters Patent sealed.*

HARFIELD. 15th December 1859.

2860. WILLIAM HORATIO HARFIELD, of Royal Exchange Buildings, in the City of London, for an invention for—"Improvements in windlasses, capstans, and shackles for chains." *Letters Patent sealed.*

KING. 16th December 1859.

2861. JOHN LANGLEY KING, of 56, Wells Street, Oxford Street, London, Lecturer at the Royal Polytechnic Institution, for an invention for—"A submarine lamp and safety lamp for mines and other useful purposes." *Provisional protection only.*

HOLDEN. 16th December 1859.

2862. EDWARD PILKINGTON HOLDEN, of Bolton-le-Moors, in the County of Lancaster, Waste Manufacturer, for an invention for—"Improvements in machinery for opening, carding and cleaning cotton and other fibrous materials when in a manufactured or partially manufactured state." *Letters Patent sealed.*

MOSLEY. 16th December 1859.

2863. WILLIAM MOSLEY, Junior, of Salford, in the County of Lancaster, Manager, for an invention for—"Certain improved machinery or apparatus for washing, scouring or cleansing textile fabrics or materials." *Letters Patent sealed.*

KNIGHT. WALBANK. BENTHAM. 16th December 1859.

2864. JOHN KNIGHT, and ALDER WALBANK, of Great Horton, in the County of York, Worsted Spinners and Manufacturers, and JOSEPH BENTHAM, of Bradford, in the said County, Worsted Spinner, for an invention for—"A new woven fabric, and in the materials employed in its manufacture." *Provisional protection only.*

BENNETT. 16th December 1859.

2865. JOSEPH JEFFREY BENNETT, of Homer Terrace, Victoria Park, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of fluid meter." *Provisional protection only.*

STOKES. 16th December 1859.

2866. HENRY STOKES, of 27, Coventry Street, in the County of Middlesex, Military Boot Maker, for an invention for—"Improvements in boots particularly applicable for military purposes." *Letters Patent sealed.*

MORRISON. 16th December 1859.

2867. ROBERT MORRISON, of the Town and County of the Town of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in double and single action steam hammers." *Letters Patent sealed.*

PYM.
17th December 1859.

2868. BRYMORE ELKINGTON PYM, of King William Street, in the City of London, Ironmonger, for an invention for—"An improved cinder shovel or cinder sifter." *Provisional protection only.*

HOCHSTAETTER.
HOCHSTAETTER.
17th December 1859.

2869. FRIEDRICH HOCHSTAETTER, and HEINRICH HOCHSTAETTER, of Gresham Street, City, for an invention for—"The preparation of a substitute for gunpowder." *Provisional protection only.*

SELLARS.
17th December 1859.

2870. JOHN SELLARS, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of size for stiffening, finishing and dressing woven fabrics and yarns." *Provisional protection only.*

HILLS.
17th December 1859.

2871. FRANK CLARKE HILLS, of Deptford, in the County of Kent, Manufacturing Chemist, for an invention for—"Improvements in means and apparatus for purifying gas, and in the preparation and treatment of oxides of iron to be used in such purification or for other purposes." *Letters Patent sealed.*

SAVAGE.
17th December 1859.

2872. ROBERT WATSON SAVAGE, of Fifteen, Saint James' Square, Westminster, in the County of Middlesex, Patent Alarum Bedstead Maker, for an invention for—"Improvements in fire escapes, also applicable to ladders, portable scaffolding, and such like purposes." *Provisional protection only.*

FAIRBANKS.
17th December 1859.

2873. THADDEUS FAIRBANKS, of St. Johnsbury, in the County of Caledonia, and State of Vermont, of the United States of America, for an invention for—"An improved scale for weighing letters." *Complete specification; Letters Patent sealed.*

PLUM.
17th December 1859.

2874. THOMAS WILLIAM PLUM, of Blaenavon Iron Works, in the County of Monmouth, Iron Master, for an invention for—"Improvements in the manufacture of tyres for railway and other carriage wheels, and of hoops and rings, and in machinery employed therein." *Letters Patent sealed.*

WRIGHT.
17th December 1859.

2875. MATHEW WRIGHT, 17, Gracechurch Street, London, for an invention for—"Fastening packing cases by which they cannot be opened without such opening being detected, and termed by him 'Detective fastening for packing cases.'" *Complete specification; protection for SIX months only.*

BUSK.
GREENWOOD.
17th December 1859.

2876. ROBERT PARISH BUSK, of Lille, in the Empire of France, Engineer, and THOMAS GREENWOOD, of Leeds, in the County of York, Machinist, for an invention for—"Improved machinery for opening and drawing fibrous substances." *Letters Patent sealed.*

SPENCE.
17th December 1859.

2877. PETER SPENCE, of Pendleton, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in repairing bells injured by cracks or fractures." *Provisional protection only*

HINSCH.
17th December 1859.

2878. JOACHIM DAVID HINSCH, of Saint Paul's Church Yard, in the City of London, for an invention for—"Improvements in the construction of gun boats." *Letters Patent sealed.*

CLARK.
17th December 1859.

2879. WILLIAM CLARK, of 53, Chancery Lane, in the County of Middlesex, Engineer and Patent Agent, for an invention for—"Improvements in the supports or chairs of railway rails."—*A communication from abroad by Messrs. Auguste Desgoffe & Leon Jucqueau, of Paris, Civil Engineers.* *Letters Patent sealed.*

TODD.
19th December 1859.

2880. MATTHEW TODD, of Bradford, in the County of York, Machine Wool Comber, for an invention for—"Improvements in machinery for combing wool or other fibrous substances." *Provisional protection only.*

HUGHES.
19th December 1859.

2881. EDWARD THOMAS HUGHES, of the firm of Hughes and Son, Patent Agents, 123, Chancery Lane, London, W.C., for an invention for—"Improvements in apparatus for cutting out the soles and counters of boots and shoes."—*A communication from abroad by Monsieur Louis Letournel, Manufacturer, of Rue de Lyon, Passage d'Orient, 17, Paris, in the Empire of France.* *Provisional protection only.*

WILSON.
NORTH.
19th December 1859.

2882. EDWARD BROWN WILSON, and ROBERT SAM NORTH, of the Swedish Steel-Iron Works, Rotherham, in the County of York, Engineers, for an invention for—"Improvements in the manufacture of cranked axles, and also of tyres for railway and other wheels, and in the machinery or apparatus employed therein." *Letters Patent sealed.*

GOODALL.
19th December 1859.

2883. GEORGE SAVILE GOODALL, of Brighouse, in the County of York, Card Maker, for an invention for—"Improvements in wire card-covering for carding tow, flax or other fibrous substances." *Letters Patent sealed.*

SERBAT.
19th December 1859.

2884. LOUIS SERBAT, of Saint Saulve, Departement du Nord, in the Empire of France, Manufacturer, for an invention for—"Improved means of removing incrustations in boilers and of preventing the same." *Letters Patent sealed.*

BATHGATE.
WILSON.
19th December 1859.

2885. ANDREW BATHGATE, and JOHN HAYS WILSON, of Liverpool, in the County of Lancaster, Ironmongers, Brassfounders, and Metalic Cask Manufacturers, for an invention for—"Improved apparatus for distilling water and cooking on board ship." *Letters Patent sealed.*

PELLISSIER.
JANNESSE.
CASTILLON.
19th December 1859.

2886. LOUIS PELLISSIER, of Bordeaux, France, Engineer, JULES JANNESSE, and EDOUARD CASTILLON, also of Bordeaux, aforesaid, Merchants, for an invention for—"An improved brake for railway carriages and mode of transmitting signals for working the same." *Provisional protection only.*

DAVIES.
19th December 1859.

2887. GEORGE DAVIES, of No. 1, Serle Street, Lincoln's Inn, in the County of Middlesex, and No. 28, St. Enoch Square, in the City of Glasgow, Civil Engineer and Patent Agent, for an invention for—"Improvements in musical instruments with piston or cylinder valves, and in the method of writing or arranging music for the same."—*A communication from abroad by Gustave Auguste Besson, of Paris, Manufacturer.* *Provisional protection only.*

SYMONS.
19th December 1859.

2888. THOMAS SYMONS, of Plymouth, in the County of Devon, Gentleman, for an invention for—"Improvements in propelling vessels through water." *Provisional protection only.*

COWAN.
COWAN.
19th December 1859.

2889. JOHN COWAN, and PHINEAS COWAN, of the firm of L. Cowan and Sons, of Barnes, in the County of Surrey, Manufacturers of Animal Charcoal, for an invention for—"Improvements in revivifying or restoring animal charcoal and in the apparatus employed therein." *Provisional protection only.*

HITCHIN.
19th December 1859.

2890. DAVID HITCHIN, of Coventry, in the County of Warwick, Watchmaker, for an invention for—"An improvement in the caps of watches." *Letters Patent sealed.*

SMITH.
19th December 1859.

2891. JOHN SMITH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of composition jewellery and ornaments, and in cases for jewellery, photographs, and for other similar purposes." *Letters Patent sealed.*

FAIRCLOUGH.
20th December 1859.

2892. JAMES FAIRCLOUGH, of Liverpool, in the County of Lancaster, Cabinet Maker and Upholsterer, for an invention for—"Improvements in bed-bottoms and other similar structures." *Letters Patent sealed.*

JONES.
20th December 1859.

2893. MATTHEW JONES, of Cardiff, in the County of Glamorgan, Engineer, for an invention for—"Improvements in the mode of preventing explosions in boilers and steam generators." *Letters Patent sealed.*

STONYER.
WHITMEE.
20th December 1859.

2894. JOHN STONYER, and JOHN WHITMEE, both of Ray Street, Clerkenwell, in the County of Middlesex, Machinists, for an invention for—"Improvements in fluid meters, such improved meters being applicable to purposes in addition to the ordinary purposes of fluid meters." *Provisional protection only.*

TURNOR.
20th December 1859.

2895. MICHAEL TURNOR, of Birmingham, in the County of Warwick, Metallic Pen Manufacturer, for an invention for—"A new or improved method of manufacturing metal boxes." *Letters Patent sealed.*

WILLCOCK.
20th December 1859.

2896. JOSEPH WILLCOCK, Mechanical Draughtsman, of 89, Chancery Lane, London, for an invention for—"A new and improved machine for cutting or mincing meat, vegetables, &c."—*A communication from abroad by Albert W. Hale, of New Britain, State of Connecticut, United States of America.* *Complete specification; Letters Patent sealed.*

BAYLEY.
20th December 1859.

2897. WILLIAM BAYLEY, Junior, of 79, White Lion Street, Islington, in the County of Middlesex, for an invention for—"Improvements in machinery for cutting wood." *Provisional protection only.*

COLLIER.
COLLIER.
20th December 1859.

2898. GEORGE COLLIER, and JOHN COLLIER, both of Halifax, in the County of York, for an invention for—"Improvements in means or apparatus for the manufacture of carpets and other pile fabrics." *Letters Patent sealed.*

FENTON.
20th December 1859.

2899. JAMES FENTON, of Low Moor, near Bradford, in the County of York, Civil Engineer, for an invention for—"Improvements in cannon and other fire arms, and in projectiles." *Provisional protection only.*

HENDERSON.
20th December 1859.

2900. WILLIAM HENDERSON, of Alderley Edge, in the County of Chester, Chemist, for an invention for—"Improvements in treating certain ores and alloys, and in obtaining products therefrom." *Letters Patent sealed.*

HOWDEN.
THRESH.
20th December 1859.

2901. RICHARD STEAD HOWDEN, and EDWIN THRESH, both of Wakefield, in the County of York, Engineers, for an invention for—"An improved construction of safety lamp." *Letters Patent sealed.*

NEWTON.
20th December 1859.

2902. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of churn."—*A communication from abroad by John Booth, of Buffalo, in the State of New York, and United States of America.*
Letters Patent sealed.

WELCH.
20th December 1859.

2903. ALFRED WELCH, of Southall, in the County of Middlesex, Gentleman, for an invention for—"Improvements in portable railways to facilitate the movement of carriages on common roads and other surfaces."—*A communication from abroad by James Welch, of Calcutta.* *Letters Patent sealed.*

FERRABEE.
20th December 1859.

2904. JAMES FERRABEE, of the Phœnix Iron Works, Stroud, in the County of Gloucester, Engineer, for an invention for—"Improvements in screw wrenches or spanners, and in securing the cotters of connecting rod and other bearings."
Letters Patent sealed.

BAYLEY.
20th December 1859.

2905. HENRY BAYLEY, of Stalybridge, in the County of Lancaster, Cotton Manufacturer, for an invention for—"Improvements in the construction and manufacture of cop tubes used in machinery for spinning fibrous materials." *Letters Patent sealed.*

JOHNSON.
20th December 1859.

2906. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of 'water traps' and in the apparatus employed therein."—*A communication from abroad by James A. Lowe, of New York, in the United States of America.* *Letters Patent sealed.*

GARDINER.
20th December 1859.

2907. PERRY G. GARDINER, of New York, in the United States of America, Engineer, for an invention for—"Springs for carriages or railroad cars." *Letters Patent sealed.*

JOHNSON.
20th December 1859.

2908. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in churns."—*A communication from abroad by Silvanus S. Riker, Payton Spence, Isaac W. Morrell, and Leonardo Westbrook, all of New York, in the United States of America.* *Letters Patent sealed.*

PLIMSOLL.
21st December 1859.

2909. SAMUEL PLIMSOLL, of 32, Hatton Garden, E.C., London, in the County of Middlesex, Coal Merchant, for an invention for—"Facilitating the unloading and transferring from railway wagons into carts and barges, &c. the coals and other matters with which they may be loaded, and for storing the same."
Letters Patent sealed.

DEMPSEY.
21st December 1859.

2910. WILLIAM DEMPSEY, of Buglawton, near Congleton, in the County of Chester, for an invention for—"An apparatus to fold bindings of any description."
Letters Patent sealed.

NEWTON.
21st December 1859.

2911. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for cutting and dressing stone."—*A communication from abroad by Jean Philippe Kehr, and Jean Millet, of Paris, in the Empire of France.*
Letters Patent sealed.

ABBOTT.
21st December 1859.

2912. WILLIAM ABBOTT, of No. 118, Cambridge Street, Warwick Square, in the County of Middlesex, for an invention for—"An improved method of preserving timber particularly adapted for railway purposes."—*A communication from abroad by James Campbell Francis Calvert, resident at the Dardanelles, in Turkey.*
Provisional protection only.

ABBOTT. 21st December 1859.

2913. WILLIAM ABBOTT, of 118, Cambridge Street, Warwick Square, in the County of Middlesex, for an invention for—"An improved method of rendering fire-wood inflammable."—*A communication from abroad by James Campbell Francis Calvert, resident at the Dardanelles, in Turkey.* *Letters Patent sealed.*

GLASSON. 21st December 1859.

2914. JOHN GLASSON, of Newark-upon-Trent, in Nottinghamshire, Engineer and Boiler Maker, for an invention for—"Improvements in steam engines." *Letters Patent sealed.*

OLLIVIER. 22nd December 1859.

2915. LOUIS BERTRAND OLLIVIER, of Bron, France, Gentleman, for an invention for—"Improvements in plough shares, hoes, and other similar cutting parts of agricultural implements." *Provisional protection only*

GEDGE. 22nd December 1859.

2916. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4. Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of artificial feathers."—*A communication from abroad by Jean Ulrich Wild, of Nancy, in the Empire of France, Straw Bonnet Manufacturer.* *Provisional protection only*

NEWTON. 22nd December 1859.

2917. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved process and apparatus for extracting or separating paraffine from schistose or mineral oils and other hydrocarbons."—*A communication from abroad by Paul François Morin, of Paris, in the Empire of France.* *Letters Patent sealed.*

NEWTON. 22nd December 1859.

2918. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of kiln or oven for burning bricks, tiles, limestone, and other substances."—*A communication from abroad by Friedrich Hoffmann, of Berlin, and Albert Licht, of Danzig, both in the Kingdom of Prussia.* *Letters Patent sealed.*

ALLEN. 22nd December 1859.

2919. THOMAS ALLEN, of Waingate, Sheffield, in the County of Yorkshire, Clothier, for an invention for—"Improved machinery for cutting out clothing and every description of textile fabrics." *Provisional protection only.*

STIDOLPH. 22nd December 1859.

2920. GEORGE FREDERICK STIDOLPH, of Ipswich, Organ Builder, for an invention for—"Improvements in organs and other wind musical instruments." *Letters Patent sealed.*

FLEET. RAWLINGS. CLOAKE. 22nd December 1859.

2921. BENJAMIN FLEET, of East Lane, Walworth, in the County of Surrey, Soda Water Manufacturer, JOSEPH RAWLINGS, of East Lane, aforesaid, Engineer to the said Benjamin Fleet, and THOMAS CLOAKE, of No. 6, Saville Row, Walworth, in the said County of Surrey, for an invention for—"Improvements in the machinery for stopping the bodies and wheels of railway and other carriages, and which machinery is an improvement on the machinery already patented by Letters Patent granted to Thomas Cloake, dated the 1st March, 1859." *Letters Patent sealed.*

MENNONS. 23rd December 1859.

2922. MARC ANTOINE FRANÇOIS MENNONS, of the British and Foreign Patent Offices, 39, Rue de l'Echiquier, Paris, in the Empire of France, for an invention for —"Improvements in voltaic batteries."—*A communication from Hippolyte F. P. Benoist, residing in Paris, Physician.* *Letters Patent sealed.*

ABEL. 23rd December 1859.

2923. FREDERICK AUGUSTUS ABEL, of Woolwich Royal Arsenal, Chemist, for an invention for—"Improvements in protecting from fire textile materials in the raw or in the manufactured state." *Letters Patent sealed.*

HYDE. HOOPER. 23rd December 1859.

2924. JOHN HYDE, and JOHN HILL HOOPER, Engineer, and Clerk in Holy Orders, respectively, of the Parish of Christ Church, Surrey, for an invention for—"Improvements in propellers of steam vessels on canals." *Provisional protection only.*

GEDGE. 23rd December 1859.

2925. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved box or case for packing sardines or other provisions."—*A communication from abroad by Etienne Chatonet, Junior, of La Rochelle, in the Empire of France.* *Letters Patent sealed.*

ECROYD. DODGEON. HEYWORTH. 23rd December 1859.

2926. EDWARD ECROYD, of Limefield, in Little Marsden, in the County of Lancaster, Manufacturer, JOHN DODGEON, of Burnley, in the said County, Machinist, and JONATHAN HEYWORTH, of Little Marsden, aforesaid, Power Loom Manager, for an invention for—"Improvements in looms." *Provisional protection only.*

PENNEY.
23rd December 1859.

2927. HENRY PENNEY, of 17, Finchley Road, Saint John's Wood, in the County of Middlesex, for an invention for—"Improvements in the treatment of vegetable fibres for the manufacture of paper." *Provisional protection only.*

LAIRD.
23rd December 1859.

2928. WILLIAM LAIRD, of Birkenhead, in the County of Chester, for an invention for—"Improvements in floating batteries." *Provisional protection only.*

TELFORD.
23rd December 1859.

2929. RICHARD TELFORD, of Birmingham, in the County of Warwick, Cabinet Brass Founder, for an invention for—"Improvements in castors." *Provisional protection only.*

GUTHRIE.
23rd December 1859.

2930. ROBERT DALRYMPLE GUTHRIE, of Leadenhall Street, in the City of London, Master Mariner, for an invention for—"An improved method of lowering ships' boats." *Letters Patent sealed.*

BROOMAN.
23rd December 1859.

2931. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, E.C., Patent Agent, for an invention for—"Improvements in hot water heating apparatus."—*A communication from abroad by Lewis Cross, of Rotterdam.* *Letters Patent sealed.*

GILES.
23rd December 1859.

2932. JOHN GILES, of Cannon Street, London, for an invention for—"Improvements in locomotive traction engines." *Letters Patent sealed.*

AVELING.
23rd December 1859.

2933. THOMAS AVELING, of Rochester, in the County of Kent, Agricultural Engineer, for an invention for—"Certain improvements in locomotive engines, parts of which improvements are applicable to the transmission of motive power." *Provisional protection only.*

DE ARRIETA.
LAMAR.
23rd December 1859.

2934. JOSÉ JOAQUIN DE ARRIETA, of Piccadilly, in the County of Middlesex, Gentleman, and JEAN PIERRE LAMAR, of Bush Lane, in the City of London, Merchant, for an invention for—"Improvements in bleaching, cleansing and decolorizing, and in apparatus employed therein."—*A communication from abroad by Daniel Henry Guillaume, of Courbevoie, near Paris, in the French Empire, Architect.* *Provisional protection only.*

GEYELIN.
24th December 1859.

2935. GEORGE KENNEDY GEYELIN, Civil Engineer, of 462, Oxford Street, in the County of Middlesex, for an invention for—"Making transparent metallic twisted columns, pillars, tubes, etc., for beadsteads, gaseliers, building, warming, and other purposes." *Provisional protection only.*

HULETT.
BOCCIUS.
24th December 1859.

2936. DAVID HULETT, of 55 & 56, High Holborn, Gas Engineer, in the County of Middlesex, and GOTTLIEB BOCCIUS, of Totnes, in the County of Devonshire, for an invention for—"Improvements in cannon and fire-arms, and in percussion cap holders and charges." *Letters Patent sealed.*

SANDER.
24th December 1859.

2937. WILLIAM SANDER, of New Basford, in the County of Nottingham, Mechanic, for an invention for—"Improvements in machinery for embossing lace or other textile fabrics made on bobbin net machines." *Provisional protection only.*

HILL.
24th December 1859.

2938. ROBERT GARDINER HILL, of Inverness Lodge, Brentford, in the County of Middlesex, Licentiate of the Royal College of Physicians, Edinburgh, and Member of the Royal College of Surgeons, England, for an invention for—"An improved fire-escape." *Letters Patent sealed; specification filed by order.*

HUBER.
24th December 1859.

2939. EMILE HUBER, of Paris, in the French Empire, Chemist, for an invention for—"The preparation of certain colouring substances for printing and dyeing or other purposes." *Provisional protection only.*

BARLOW.
4th December 1859.

2940. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Improvements in screw cutting machines."—*A communication from abroad by Joseph P. Haigh, of Pittsburg, in the State of Pennsylvania, in the United States of America.* *Letters Patent sealed.*

SMITH.
24th December 1859.

2941. EDWIN SMITH, of the Marble Works, Sheffield, in the County of York, Sculptor, for an invention for—"Improvements in ornamenting metal pipes or tubes." *Provisional protection only.*

BROWN.
BROWN.
24th December 1859.

2942. GEORGE GIBSON BROWN, of Deptford, in the County of Kent, Gentleman, and JOHN WEIR DRAPER BROWN, of Greenwich, in the same County, Surgeon, for an invention for—"Improvements in oil lamps." *Provisional protection only.*

SPILSBURY.
24th December 1859.

2943. FRANCIS GYBBON SPILSBURY, Gentleman, of Bow, in the County of Middlesex, for an invention for—"A certain translucent or transparent fabric, and for certain applications of the same to various purposes." *Letters Patent sealed.*

RUL.
24th December 1859.

2944. LEWIS JOSEPH GABRIEL RUL, Attorney at Law, residing at Reims (Department of the Marne), for an invention for—"Preparing the dilution in the distilleries and breweries by means of regularly heating and cooling instantaneously all the amylaceous, saccharine, fermentable substances."
Provisional protection NOT granted.

McTURK.
EAST.
24th December 1859.

2945. ROBERT MURRAY McTURK, and GEORGE EAST, both of Liverpool, in the County of Lancaster, Gentlemen, for an invention for—"Improvements in the manufacture of collars and cuffs."—*Partly a communication from abroad by Andrew Smith, of New York, in the United States of America.* *Letters Patent sealed.*

NEWTON.
24th December 1859.

2946. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in mills for grinding."—*A communication from abroad by Mr. Cabanes, of Paris, in the Empire of France.* *Letters Patent sealed.*

SMITH.
24th December 1859.

2947. JOHN SMITH, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of buttons and other dress fastenings." *Letters Patent sealed.*

HUDSON.
CATLOW.
27th December 1859.

2948. WILLIAM HUDSON, of Burnley, in the County of Lancaster, Machinist, and CHRISTOPHER CATLOW, of the same place, Overlooker, for an invention for—"Certain improvements in looms for weaving." *Provisional protection only.*

LEVICK.
27th December 1859.

2949. FREDERICK LEVICK, of Blaina Cwm Celyn, and Coalbrook Vale Iron Works, in the County of Monmouth, Iron Master, for an invention for—"Improvements in puddling and other reverberatory furnaces used in the manufacture and heating of iron and for other like purposes, and in economizing the waste heat of the said furnaces." *Provisional protection only.*

TRUSS.
27th December 1859.

2950. THOMAS SEAVILLE TRUSS, of Darlington, in the County of Durham, and of Number 53, Gracechurch Street, in the City of London, Civil Engineer, for an invention for—"Improvements in the mode of packing or cushioning railway chairs, pillars, pipes, girders and engines by the use of animal and vegetable fibre packing chemically prepared." *Letters Patent sealed.*

TAYLER.
27th December 1859.

2951. WILLIAM ELFE TAYLER, Classical and Mathematical Tutor, of No. 4, Russell Place, Montpellier, Bristol, for an invention for—"Fastening the hairs in tooth brushes and other brushes." *Provisional protection only.*

HOUSE.
MARTIN.
27th December 1859.

2952. JOHN JAMES HOUSE, and HENRY ALFRED MARTIN, Stationers, both of No. 1, Watson Walk, Sheffield, in the County of York, for an invention for—"An improved method of application and arrangement of indexes to account and other books." *Letters Patent sealed; no specification filed.*

DE NABAT.
DE NABAT.
27th December 1859.

2953. XAVIER CARRÈRE DE NABAT, and ARMAND CARRÈRE DE NABAT, of No. 41, Rue d'Angoulême St. Honoré, in the City of Paris, Empire of France, Gentleman, for an invention for—"An apparatus to shear domestic animals."
Letters Patent sealed.

JOHNSON.
27th December 1859.

2954. WILLIAM BECKETT JOHNSON, Manager for Messrs. Ormerod and Son, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam engines and boilers, and apparatus connected therewith.
Provisional protection only.

MARYON.
27th December 1859.

2955. WILLIAM MARYON, of No. 9, Stanhope Street, Hampstead Road, in the County of Middlesex, Ladder Maker, for an invention for—"Improvements in ladders, and in machinery to be used in making them." *Provisional protection only.*

MAGNUS.
SINNOCK.
28th December 1859.

2956. LAZARUS SIMON MAGNUS, of No. 3, Adelaide Place, London Bridge, in the City of London, Merchant, and WILLIAM SINNOCK, of Brompton, in the County of Kent, Ropery Engineer, for an invention for—"Improvements in preparing yarn, twine, cords, and strands, and other fibrous materials, to render the same more suitable for submarine telegraph cables and other uses." *Letters Patent sealed.*

NEWTON.
28th December 1859.

2957. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in the treatment of stricks or bundles of fibres, and the conversion of the same into slivers or ribbons."—*A communication from abroad by Charles de Jongh, of Guebwiller, in the Empire of France.* *Letters Patent sealed.*

McDOUGALL. 28th December 1859.

2958. ALEXANDER McDOUGALL, of Manchester, in the County of Lancaster, Chemist, for an invention for—"Improvements in the preparation of disinfecting and antiseptic substances." *Letters Patent sealed.*

ROONEY. RENSHAW. 28th December 1859.

2959. CORNELIUS JOSEPH ROONEY, and DAVID RENSHAW, of New York, in the County and State of New York, in the United States of America, for an invention for—"An improvement in spring door hinges." *Letters Patent sealed.*

DRESSLER. 28th December 1859.

2960. FREDERICK DRESSLER, of Nassau Street, in the County of Middlesex, Cabinet Maker, for an invention for—"Improvements in dining and other tables, which improvements are applicable to other articles of furniture." *Letters Patent sealed.*

JANNIARD. 28th December 1859.

2961. FRANÇOIS PHILIPPE JANNIARD, of the Town of Beaune, in the Department of the Côte d'Or, Empire of France, Householder, for an invention for—"An apparatus indicating the time in music, and which can serve as a diapason." *Letters Patent sealed.*

ROSTAING. 28th December 1859.

2962. CHARLES SYLVESTER ROSTAING, Citizen of the United States of America, now residing at Dresden, in the Kingdom of Saxony, for an invention for—"Improvements in combining and mixing gutta percha with mineral and vegetable substances capable of altering its quality in such a manner as to produce hard, resistant, unalterable, and imputrescible compounds diversly coloured." *Letters Patent sealed.*

GILBEE. 28th December 1859.

2963. WILLIAM ARMAND GILBEE, of No. 4, South Street, Finsbury, London, Patent Agent, for an invention for—"A new manufacture of colouring matter for replacing Lokas or Chinese green."—*A communication from abroad by Felix Charvin, of Lyons, in the Empire of France.* *Letters Patent sealed.*

ENGELMANN. 28th December 1859.

2964. JULES ENGELMANN, of the City of Mulhouse, in the Department of the Haut Rhin, France, Civil Engineer, for an invention for—"Improvements in steam engines." *Letters Patent sealed.*

MELHUISH. 28th December 1859.

2965. ARTHUR JAMES MELHUISH, of Holborn Bars, and also of Bowater Place, Blackheath, Optician, for an invention for—"Improvements in cameras." *Provisional protection only.*

PEPPÉ. 28th December 1859.

2966. GEORGE TOSCO PEPPÉ, of Peak Hill, Sydenham, for an invention for—"Improvements in apparatus for keeping time." *Letters Patent sealed.*

KING. 29th December 1859.

2967. SAMUEL KING, of Edwards Street, Portman Square, in the County of Middlesex, for an invention for—"Improvements in spirit lamps." *Letters Patent sealed.*

KIRBY. 29th December 1859.

2968. EDWARD KIRBY, of Lower Moor, Oldham, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in or applicable to machines for spinning, doubling, winding, reeling, and weaving, and in cop tubes used in such machines." *Letters Patent sealed.*

CROSLAND. 29th December 1859.

2969. JAMES STEAD CROSLAND, of Johnson Brook, near Hyde, in the County of Chester, Engineer, for an invention for—"Certain improvements in steam engines and boilers, and in the mode of applying steam engines." *Letters Patent sealed.*

NEWTON. 29th December 1859.

2970. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the mode of and apparatus for submitting yarns or threads to the action of gaseous and liquid bodies."—*A communication from abroad by Charles De Jongh, of Guebwiller, in the Empire of France.* *Letters Patent sealed.*

BARLOW. 29th December 1859.

2971. HENRY BERNOULLI BARLOW, of the City of Manchester, Patent Agent, for an invention for—"Improvements in machinery or apparatus for stripping or cleaning the drums and rollers of carding engines and other machines in which rollers covered with card teeth are employed."—*A communication from abroad by H. Rieter, of Winterthur, in the Republic of Switzerland.* *Letters Patent sealed.*

FEARNLEY. 29th December 1859.

2972. THOMAS FEARNLEY, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in steam hammers." *Letters Patent sealed.*

RUSSELL.
29th December 1859.

2973. THOMAS ROBERT RUSSELL, of Liverpool, in the County of Lancaster, Watch Manufacturer, for an invention for—"The application of certain metals or materials to the manufacture of the movements of watches and other time keepers."
Letters Patent sealed.

THOMAS.
29th December 1859.

2974. THOMAS THOMAS, of Rawtenstall, in the County of Lancaster, Bookkeeper, for an invention for—"Improvements in machinery or apparatus for spinning fibrous materials." *Provisional protection only.*

CRESSEY.
29th December 1859.

2975. THOMAS STOKES CRESSEY, of Burton-on-Trent, for an invention for—"Improvements in trussing casks and in apparatus employed therein.
Letters Patent sealed.

JOHNSON.
29th December 1859.

2976. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of 166, Buchanan Street, in the City of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sewing machines."—*A communication from abroad by James Snow Goodridge, of Grenoble, in the Empire of France.* *Provisional protection only.*

CLIFF.
29th December 1859.

2977. JOSEPH CLIFF, of Wortley, near Leeds, in the County of York, Fire Brick Manufacturer, for an invention for—"An improvement in cleansing wool and woollen waste." *Letters Patent sealed.*

NEWTON.
29th December 1859.

2978. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machine belting or banding, and in the machinery and process of making the same."—*A communication from abroad by John H. Cheever, of New York, in the United States of America.* *Letters Patent sealed.*

CLIFF.
29th December 1859.

2979. JOSEPH CLIFF, of Wortley, near Leeds, in the County of York, Fire Brick Manufacturer, for an invention for—"An improvement in the manufacture of clay retorts." *Letters Patent sealed.*

FAIRBAIRN.
NEWTON.
29th December 1859.

2980. Sir PETER FAIRBAIRN, of Leeds, in the County of York, Knight, and ROBERT NEWTON, of Leeds, aforesaid, Commercial Traveller, for an invention for—"Improved machinery for combing silk, flax, and other fibres."
Letters Patent sealed.

SMITH.
30th December 1859.

2981. WILLIAM SMITH, of Kilmarnock, in the County of Ayr, North Britain, Fire Clay Manufacturer, for an invention for—"Improvements in the manufacture of fire clay gas retorts." *Provisional protection only.*

SMITH.
30th December 1859.

2982. WILLIAM SMITH, of Kilmarnock, in the County of Ayr, North Britain, Fire Clay Manufacturer, for an invention for—"Improvements in stack pillars or supports for stacks and ricks of agricultural produce." *Provisional protection only.*

AUCHINCLOSS.
30th December 1859.

2983. THOMAS AUCHINCLOSS, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention [for—"Improvements in machinery or apparatus for beetling and washing textile fabrics." *Letters Patent sealed.*

SMITH.
30th December 1859.

2984. WILLIAM SMITH, of Kilmarnock, in the County of Ayr, North Britain, Fire Clay Manufacturer, for an invention for—"Improvements in vent or chimney linings, and in smoke preventive and ventilating apparatus connected therewith."
Provisional protection only.

BALL.
30th December 1859.

2985. THOMAS LAWRENCE BALL, of New York (City), N.Y. County, U.S. North America, for an invention for—"Improvement in show cases for the containing of fancy articles." *Provisional protection only.*

JONES.
STOTHARD.
30th December 1859.

2986. REUBEN JONES, of Trinity Terrace, Trinity Square, Southwark, in the County of Surrey, and DANIEL STOTHARD, of Peacock Street, Newington, in the County of Surrey, for an invention for—"Improved mechanical arrangements for raising, lowering, and disengaging ships' boats and other ponderous bodies."
Provisional protection only.

ROBERTSON.
30th December 1859.

2987. WILLIAM ROBERTSON, of the City of Manchester, in the County of Lancaster, Mechanician, for an invention for—"A new method of dragging boats by the power of the water passed through canals or rivers or otherwise attainable."
Letters Patent sealed

GEDGE. 30th December 1859.	2988. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved tooth brush."—*A communication from abroad by Ernest Poussart, of Arnicourt, in the Empire of France.* *Letters Patent sealed.*
GEDGE. 30th December 1859.	2989. WILLIAM EDWARD GEDGE, of the firm of John Gedge and Son, No. 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"A new system of paddles for steam boats or other vessels."—*A communication from abroad by Guillaume Cusset, of Givors, in the Empire of France.* *Provisional protection only.*
WHITWORTH. 30th December 1859.	2990. JOSEPH WHITWORTH, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in projectiles and machinery for their manufacture." *Letters Patent sealed.*
SLACK. 30th December 1859.	2991. JAMES SLACK, of Hyson Green Terrace Street, Nottingham, for an invention for—"Improvements in water and steam guages for steam boilers." *Letters Patent sealed.*
COCHRANE. 30th December 1859.	2992. HENRY COCHRANE, of Middlesbro'-on-Tees, Engineer, for an invention for—"Improvements in the construction of core bars." *Letters Patent sealed.*
NEWTON. 30th December 1859.	2993. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in spinning machinery."—*A communication from abroad by Eugène Augustin Lecœur, of Paris, in the Empire of France, Machinist.* *Complete specification; Letters Patent sealed.*
BRAGGINS. 31st December 1859.	2994. JAMES BRAGGINS, of Banbury, in the County of Oxford, Timber Merchant, for an invention for—"Improvements in gates for fields and carriage roads." *Letters Patent sealed.*
GREGORY. 31st December 1859.	2995. THOMAS CURRIE GREGORY, of Glasgow, in the County of Lanark, North Britain, Civil Engineer, for an invention for—"Improvements in railway carriages." *Provisional protection only.*
GIBSON. 31st December 1859.	2996. ROBERT GIBSON, of the City of Lincoln, Engineer, for an invention for—"Improvements in the permanent way of railways and in the manufacture of parts of the same." *Letters Patent sealed.*
MUNSTER. 31st December 1859.	2997. HENRY MUNSTER, of Brighton, in the County of Sussex, Esquire, for an invention for—"Certain improvements in billiard and other tables." *Letters Patent sealed.*
JACKSON. 31st December 1859.	2998. WILLIAM JACKSON, Machinist, of 4, Spring Terrace, York Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in sewing or stitching machines." *Letters Patent sealed.*
RIDSDALE. 31st December 1859.	2999. JAMES RIDSDALE, of Stoke Newington Green, in the County of Middlesex, for an invention for improvements in the construction of syphons." *Provisional protection only.*
EASON. 31st December 1859.	3000. JOHN EASON, of Oxford Street, in the County of Middlesex, for an invention for—"Improvements in tanning and in the manufacture of leather, and in machinery adapted thereto." *Letters Patent sealed.*

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